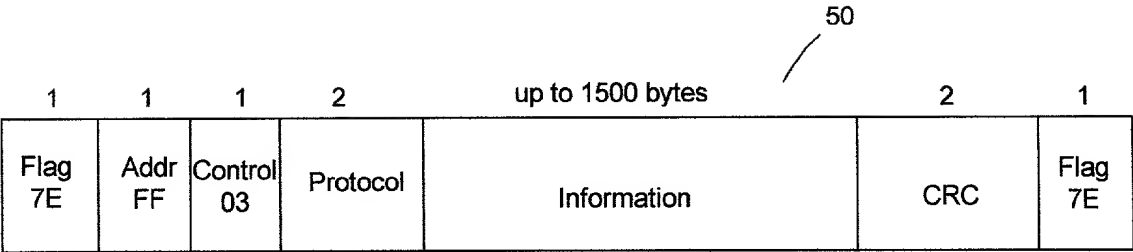
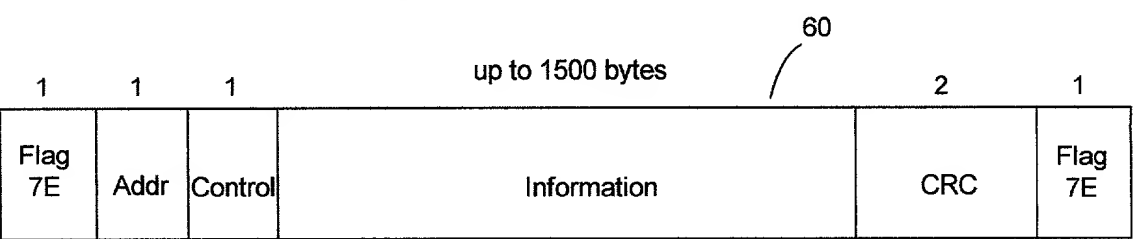


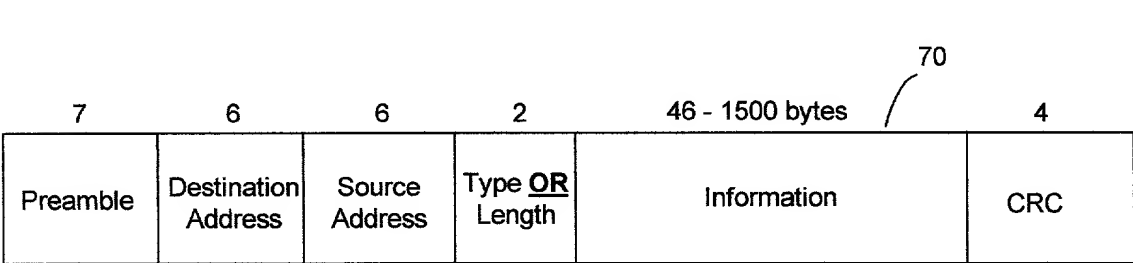
Typical Frame Format



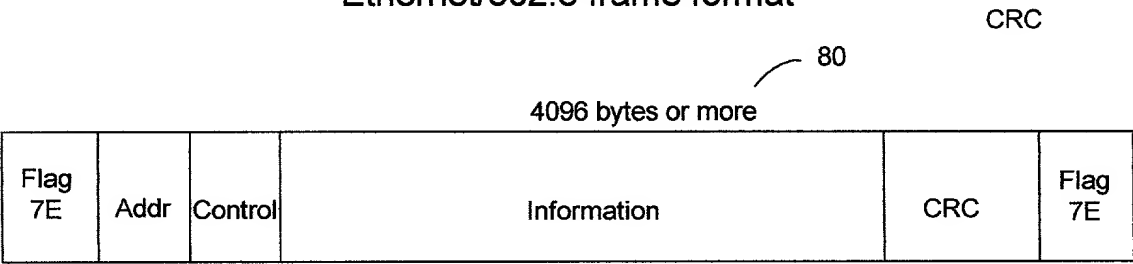
Point-to-point frame format



Frame Relay frame format



Ethernet/802.3 frame format



HDLC frame format

FIG. 1

FIG. 2 is a block diagram of a sub-frame structure. The sub-frame is divided into several fields. At the top is a header field (110) containing a sequence of bits: 0, 1, 1, 1, 1, 1, 1, 0. Below the header is a frame header field (111). The next field is a data block (112), which is variable in size and contains a sequence of bits: 0, 1, 1, 1, 1, 1, 1, 0. Below the data block is a sub-framing byte (115), which is 7-bits long and contains a sequence of bits: 0, 1, 1, 1, 1, 1, 0. The sub-framing byte is followed by a last sub-frame sequence indicator bit (116), which is the least significant bit (LS) of the sub-framing byte. Below the sub-framing byte is a CRC field (117). The CRC field is followed by another CRC field (119). The final field is a footer field (119) containing a sequence of bits: 0, 1, 1, 1, 1, 1, 1, 0.

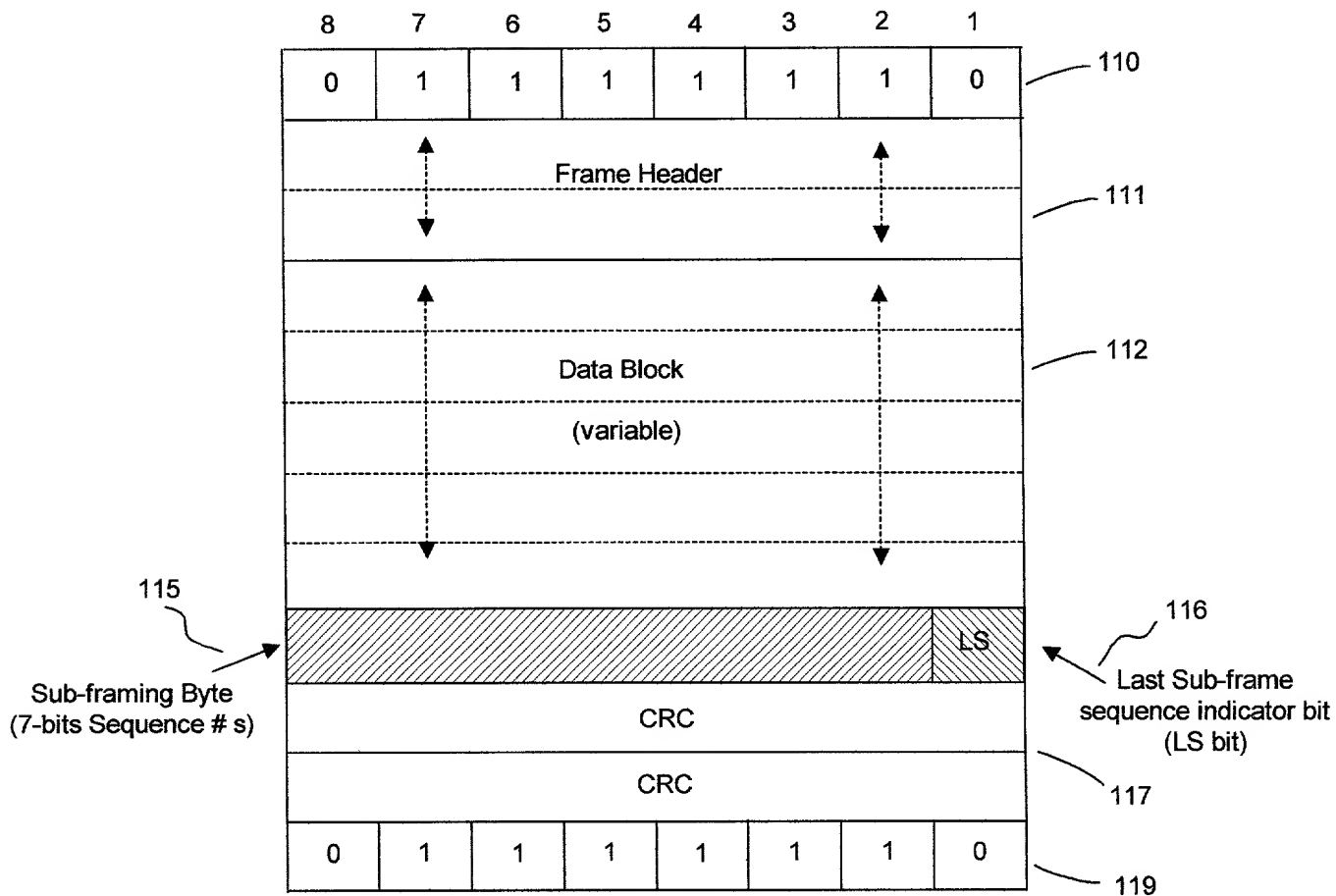


FIG. 2

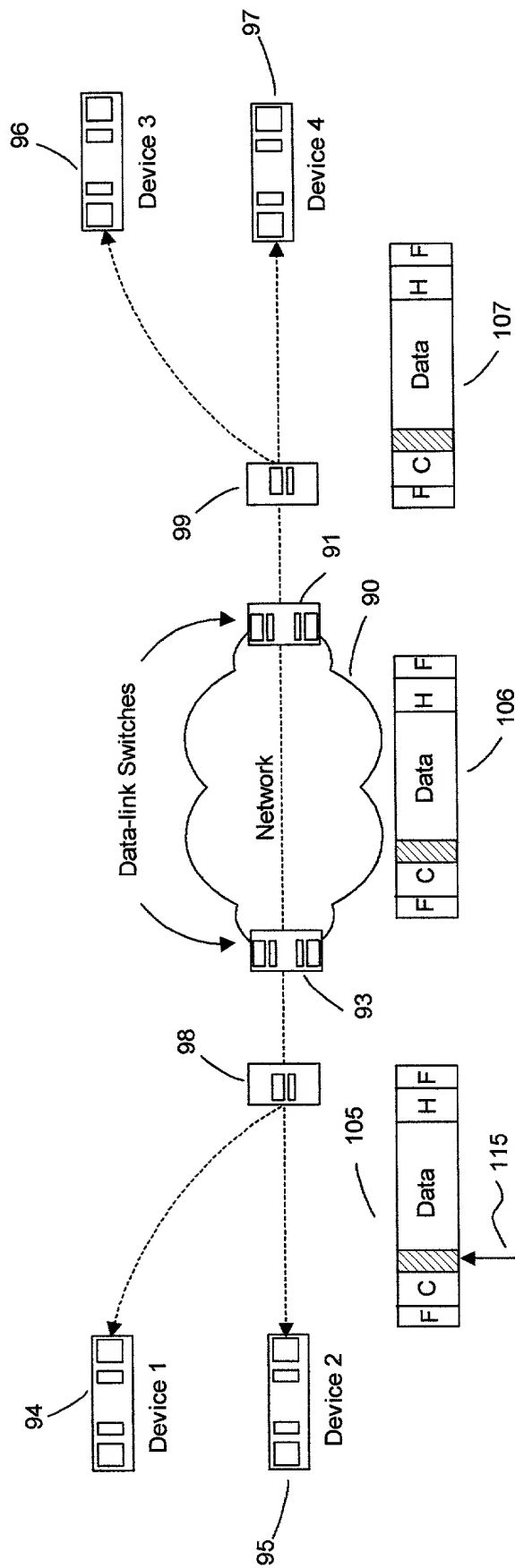


FIG. 3A

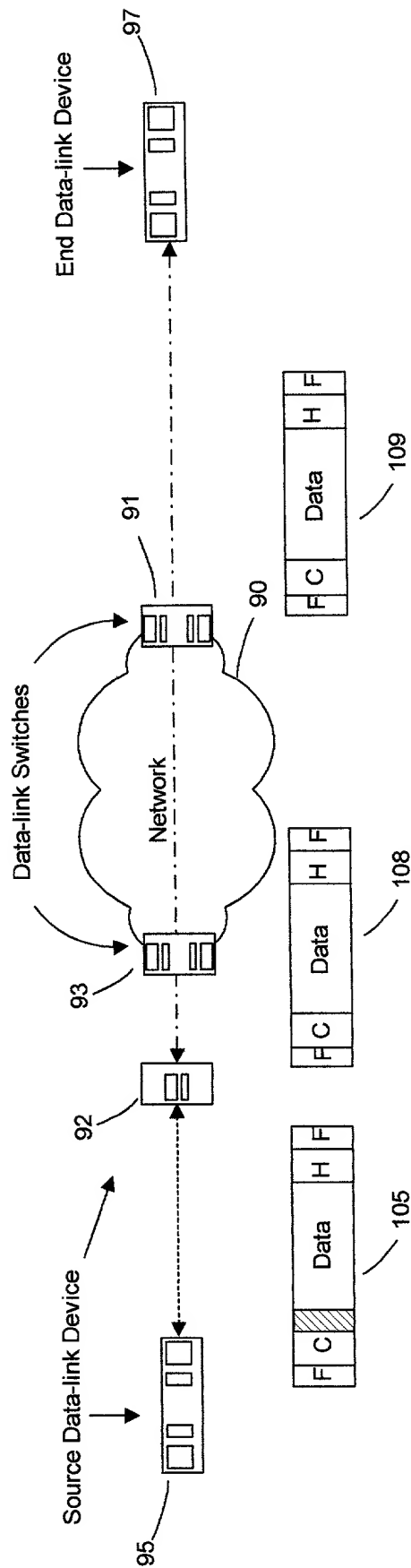


FIG. 3B

**Sequence byte range assignment:**

Sequence range assigned for priority service  $N_1$

$x_1 \longrightarrow x_i$

Sequence range assigned for priority service  $N_k$

$x_j \longrightarrow x_k$

Sequence range assigned for priority service  $N_z$

$x_y \longrightarrow x_z$

**Example:**

Voice priority service  $N_v$

1  $\longrightarrow$  15

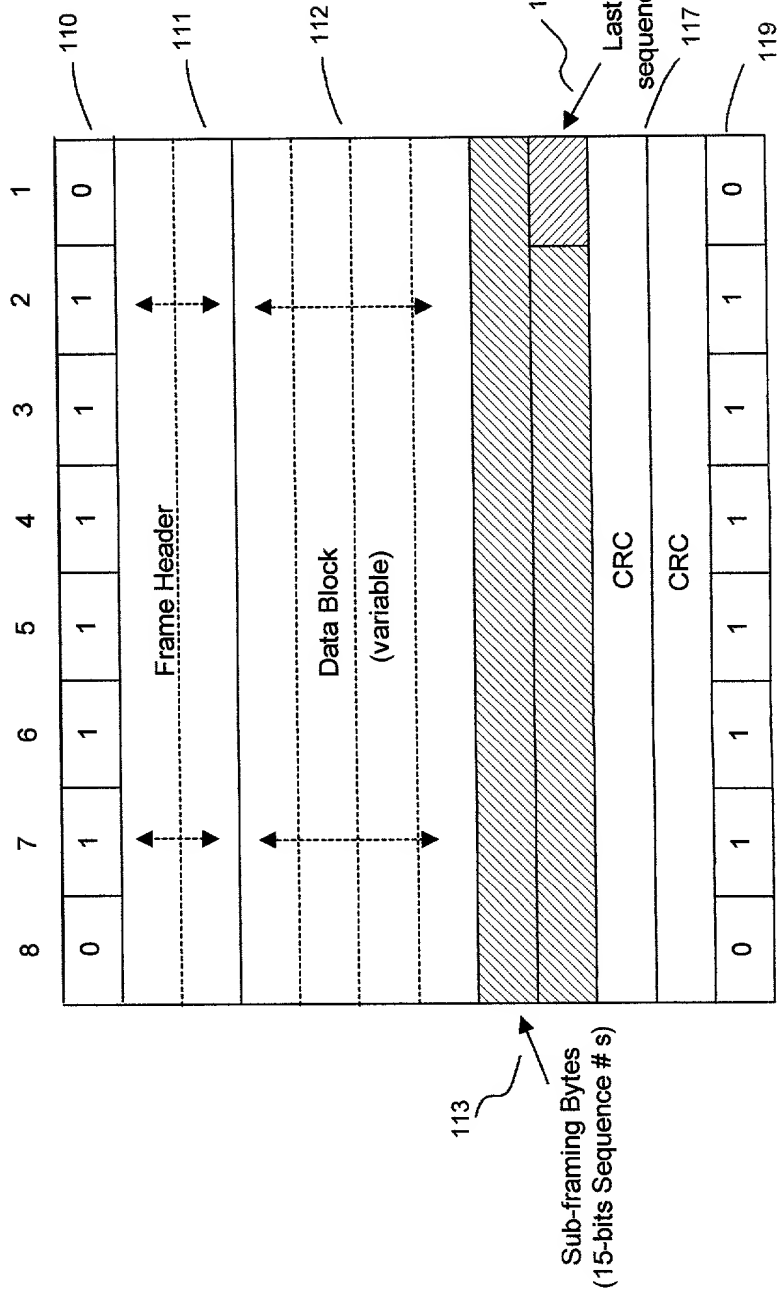
SNA traffic priority service  $N_s$

16  $\longrightarrow$  50

LAN traffic priority service  $N_L$

51  $\longrightarrow$  127

**FIG. 4A**



**FIG. 4B**

FIG. 5 is a block diagram of a sub-frame structure. The sub-frame is composed of several fields: a header field (110) containing a flag field (111 A) and a control field (111 B); a data field (112) containing a data block (variable); a footer field (113) containing a CRC field (114) and a sub-framing byte (115). The sub-framing byte (115) is a 7-bit sequence number. The data field (112) is a variable-length block. The footer field (113) is a 7-bit sequence number. The sub-frame is terminated by a last sub-frame sequence indicator bit (116). The sub-frame is terminated by a last sub-frame sequence indicator bit (116). The sub-frame is terminated by a last sub-frame sequence indicator bit (116).

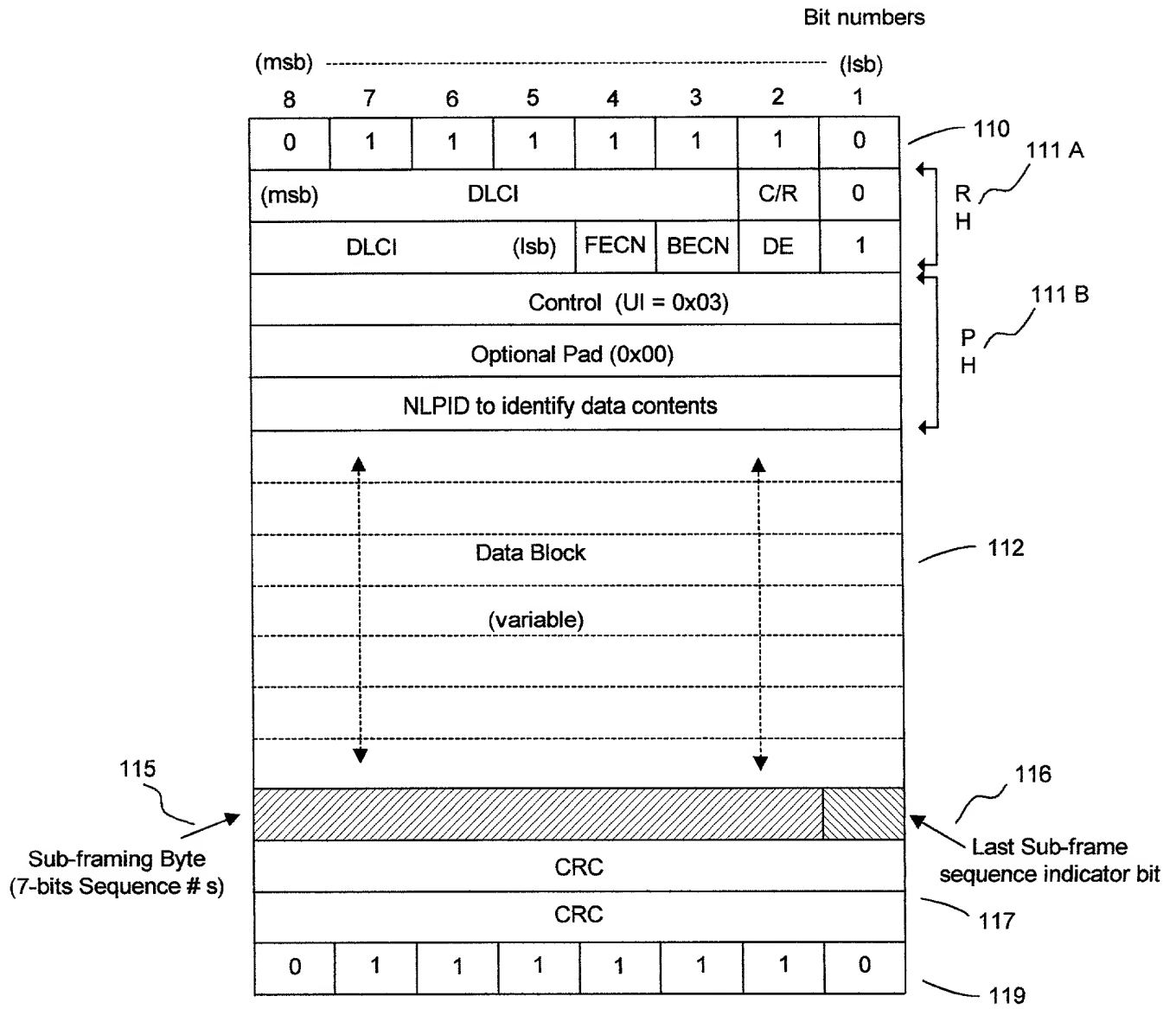
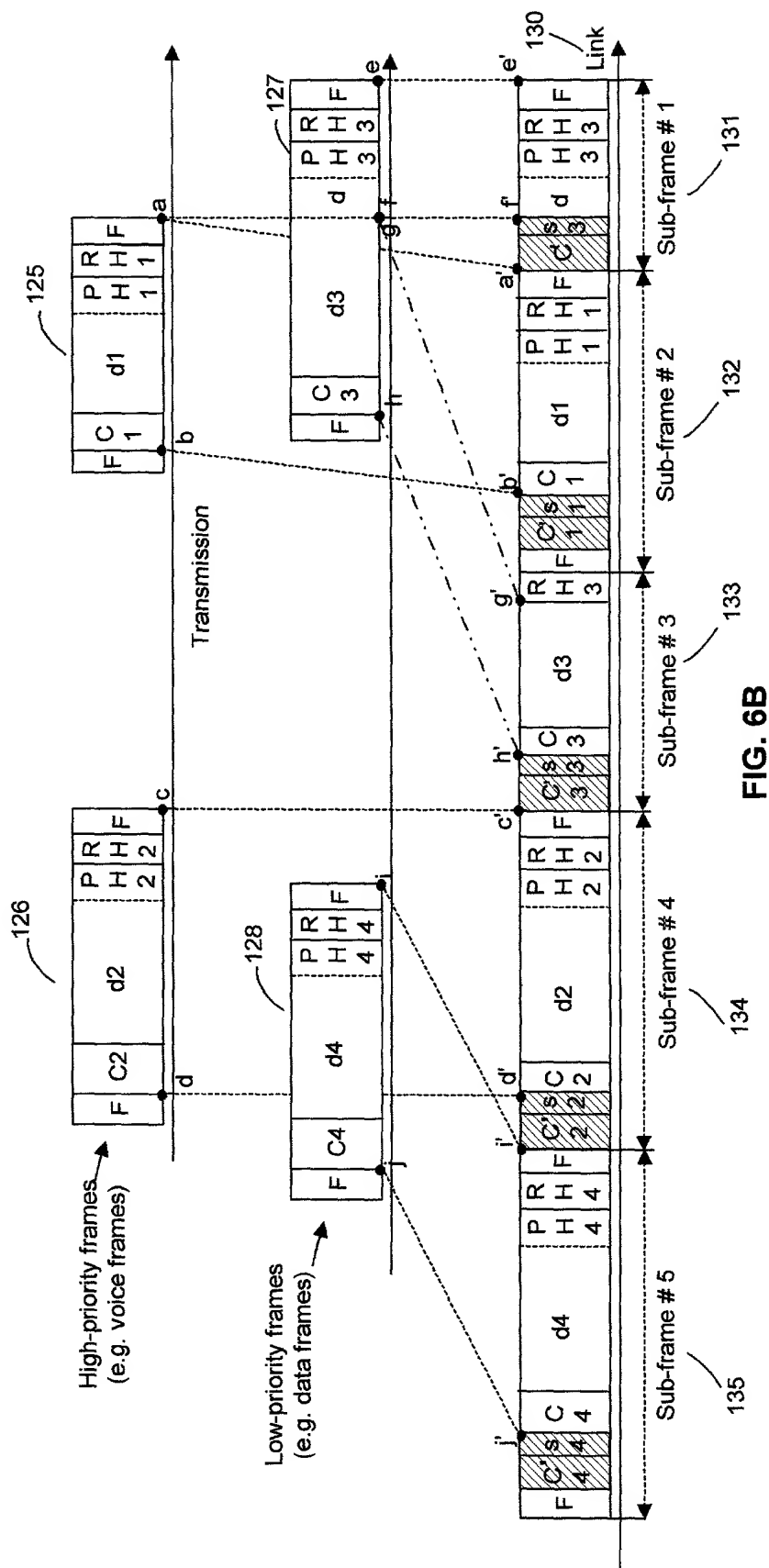
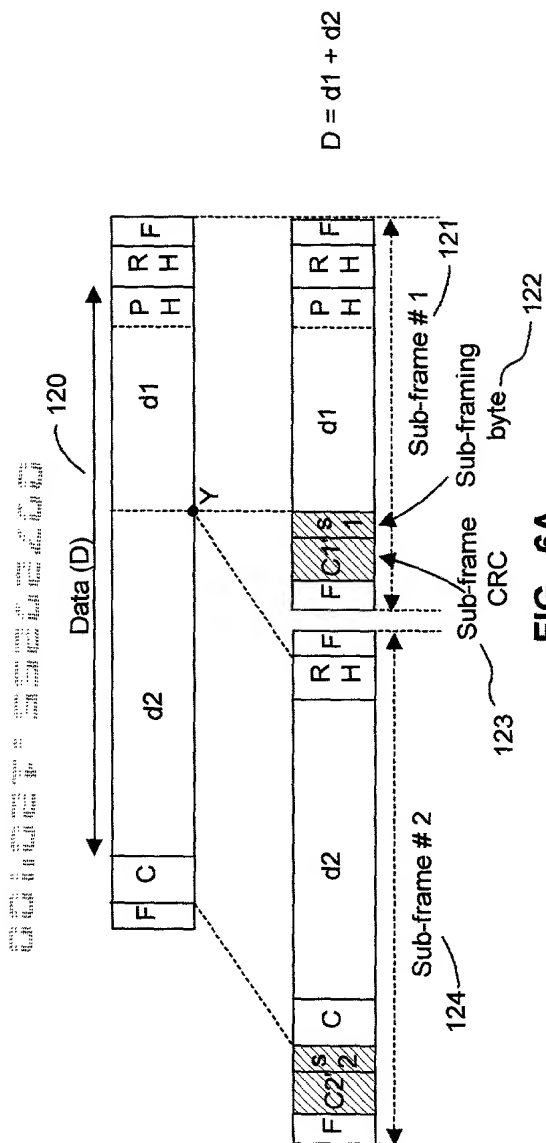


FIG. 5



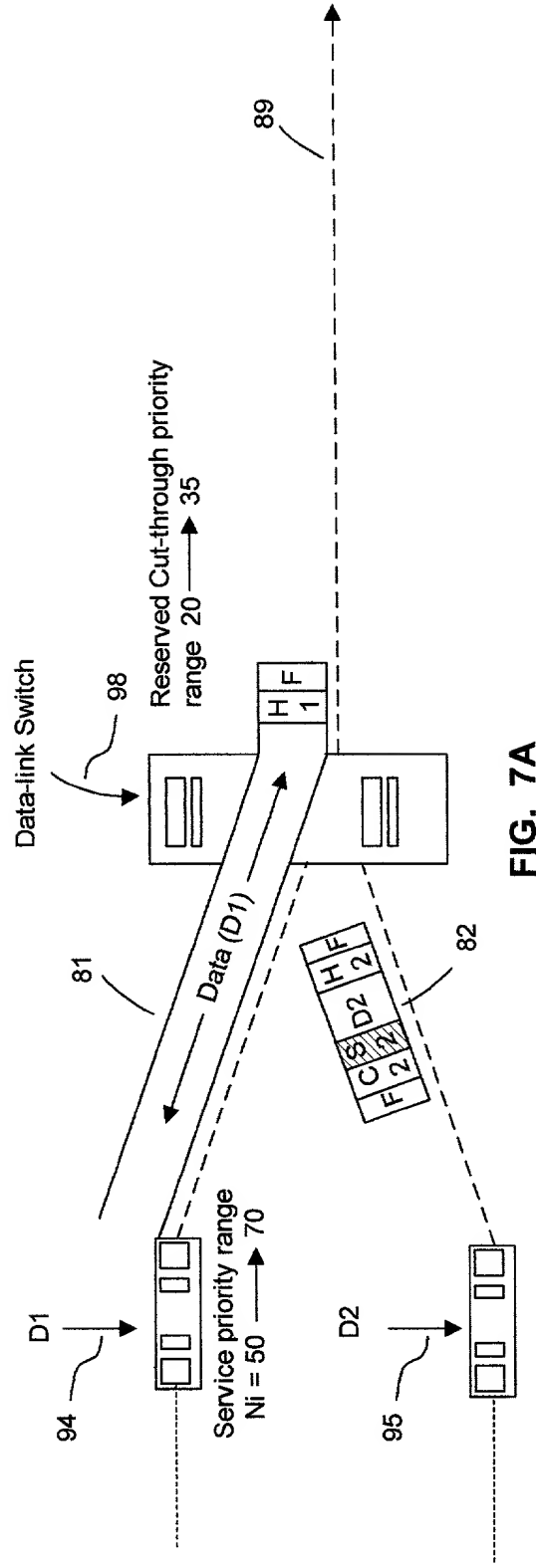


FIG. 7A

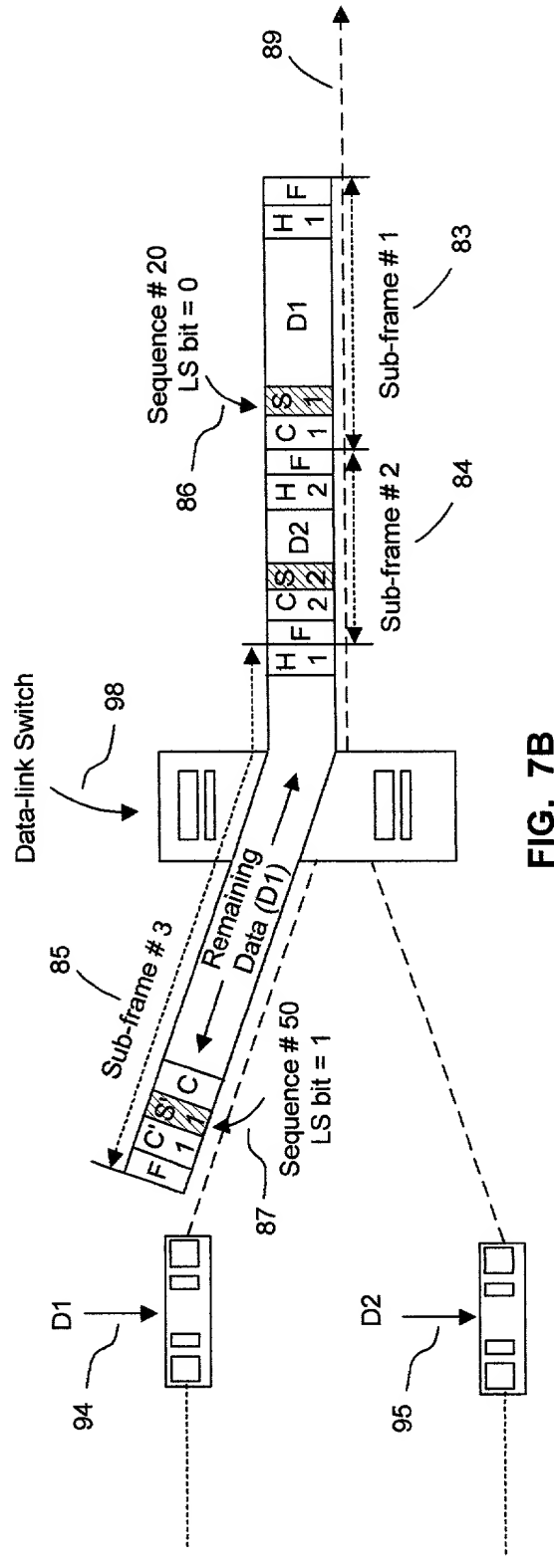
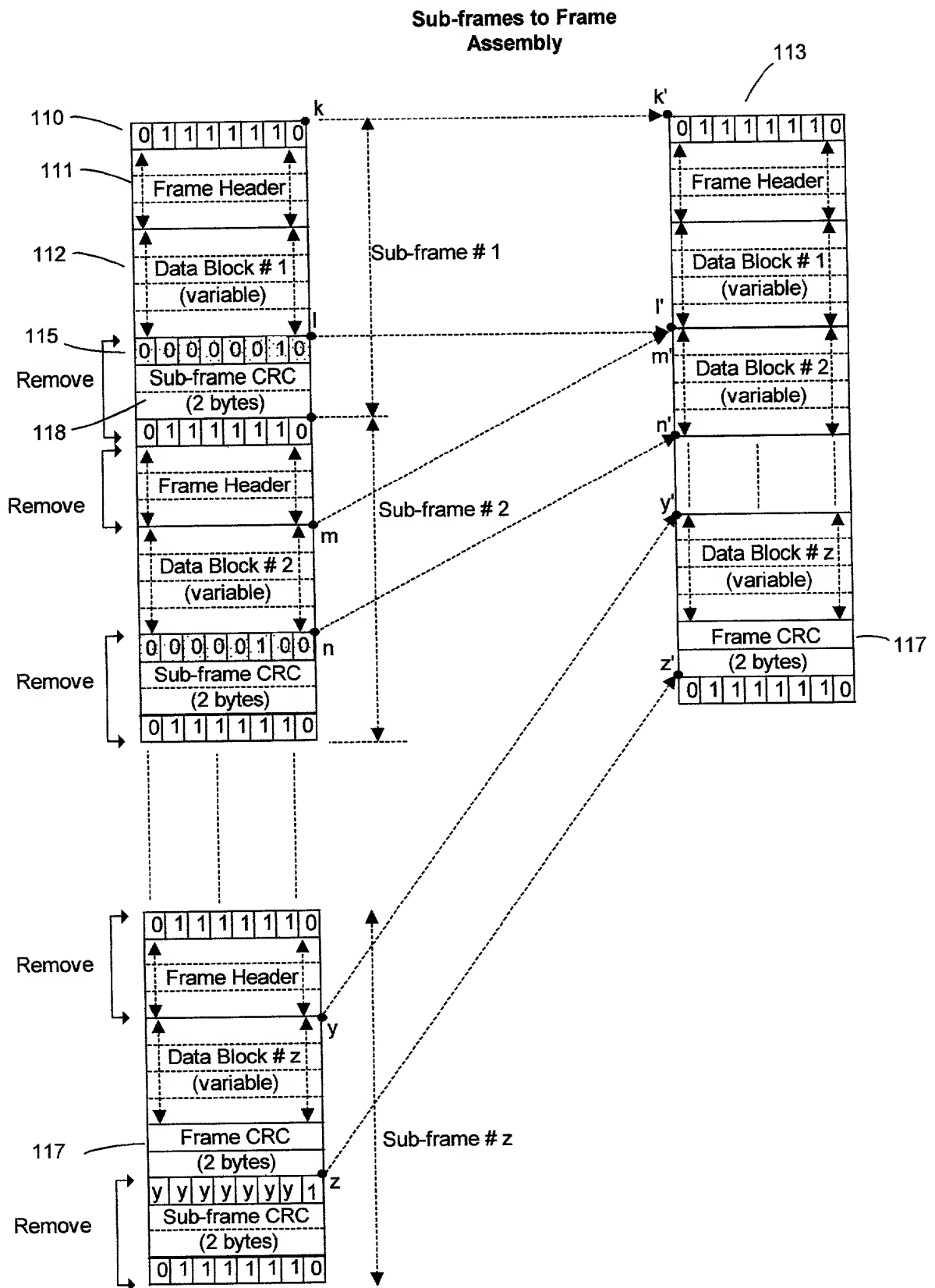
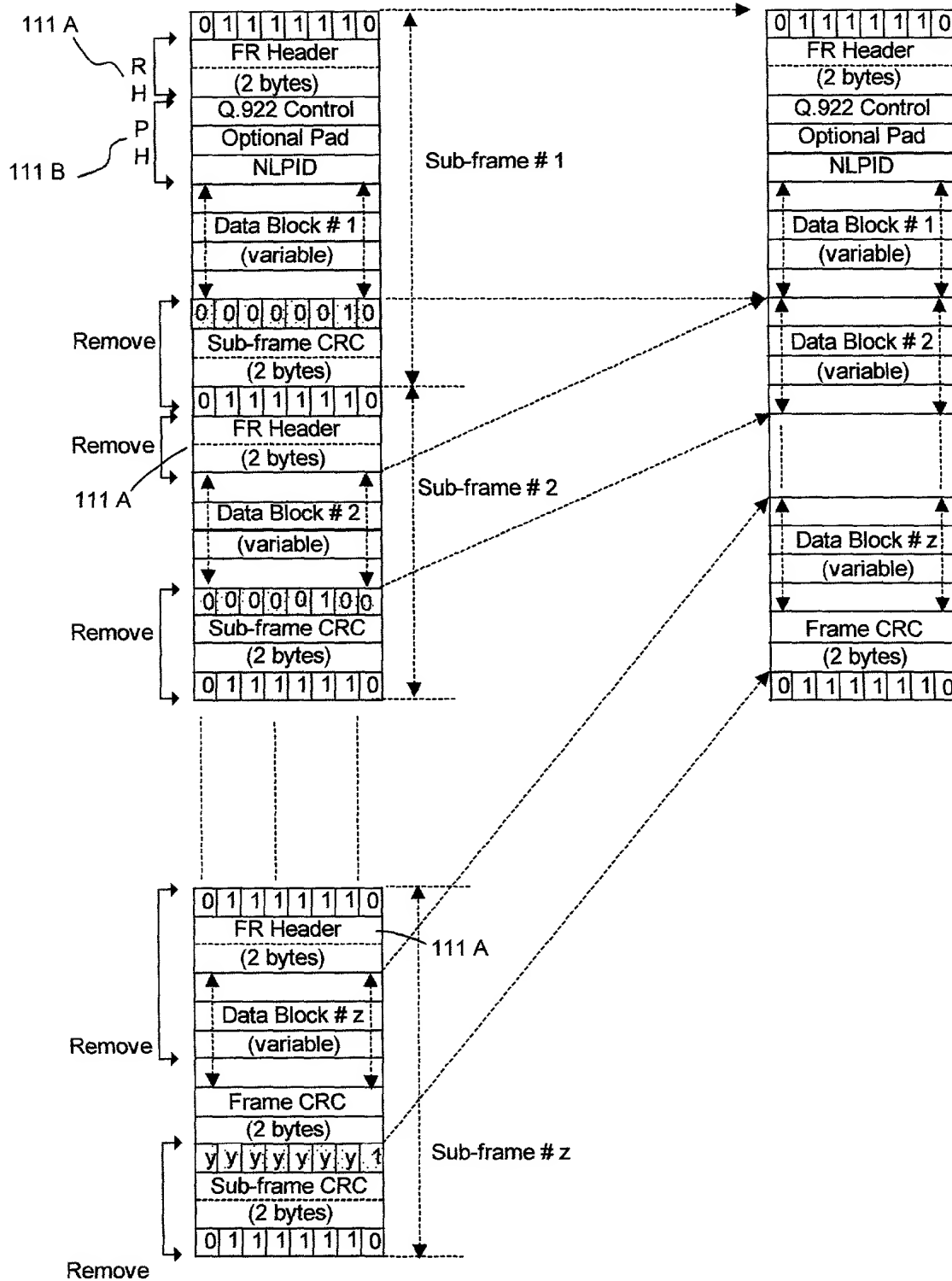


FIG. 7B



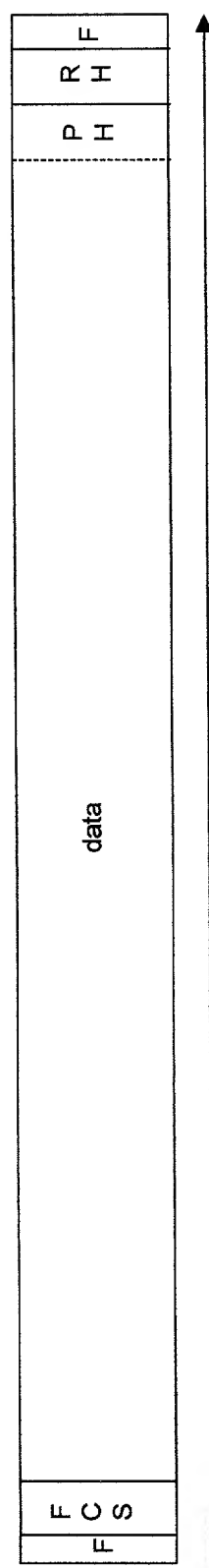
**FIG. 8**

**Example:**  
FR Sub-frames  
assembled back  
to FR Frames



**FIG. 9**

140



Transmission

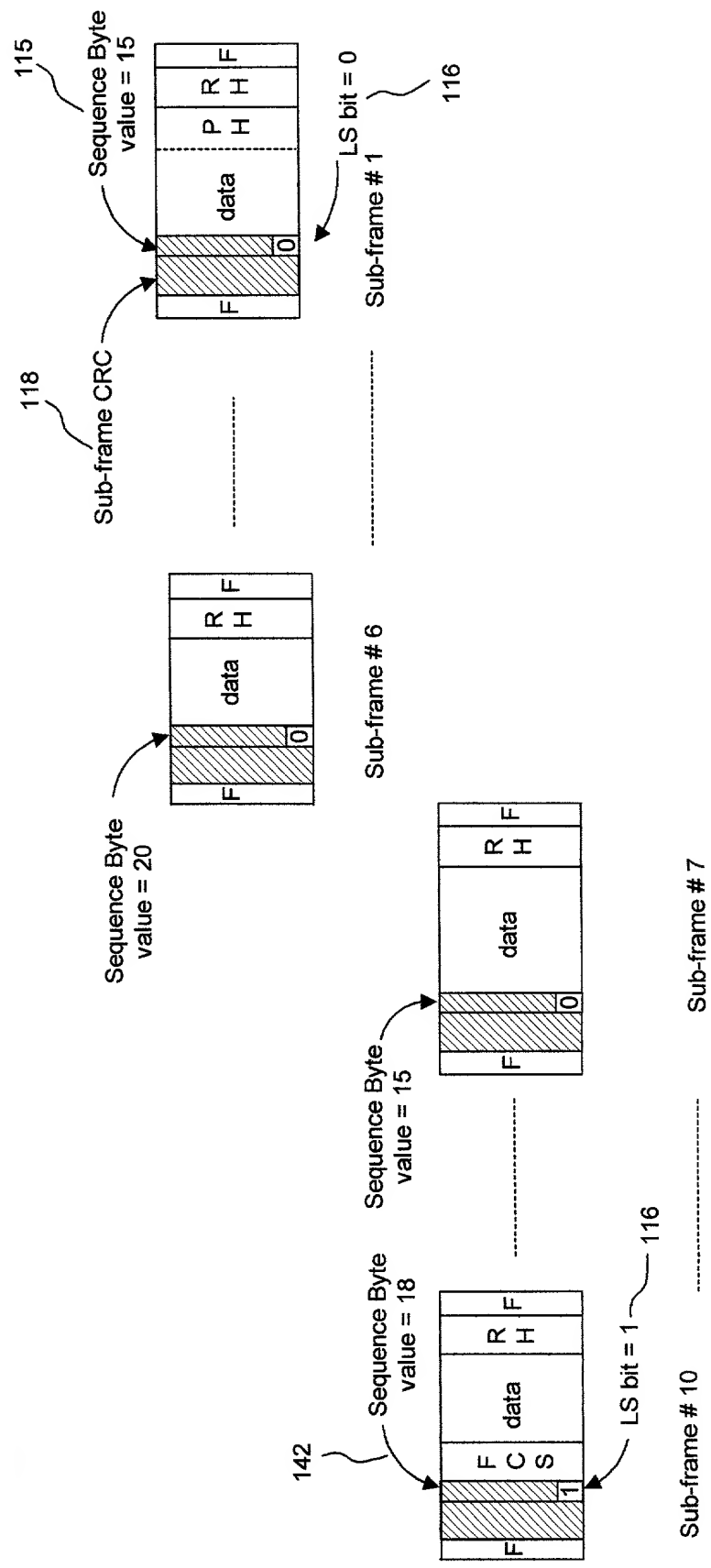


FIG. 10

Multi-priority Services over a single network link

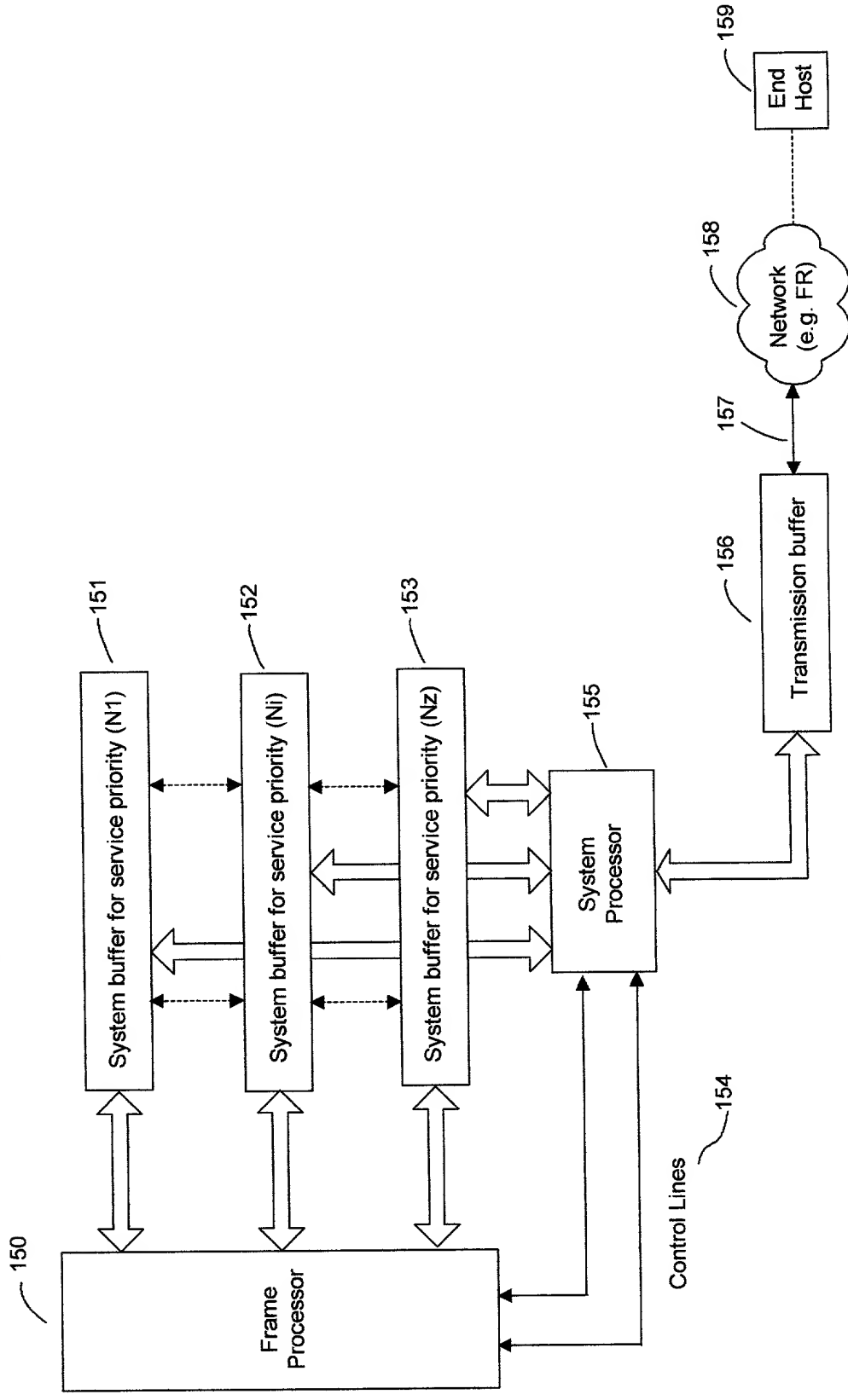


FIG. 11

# Multi-priority Services over multiple network links

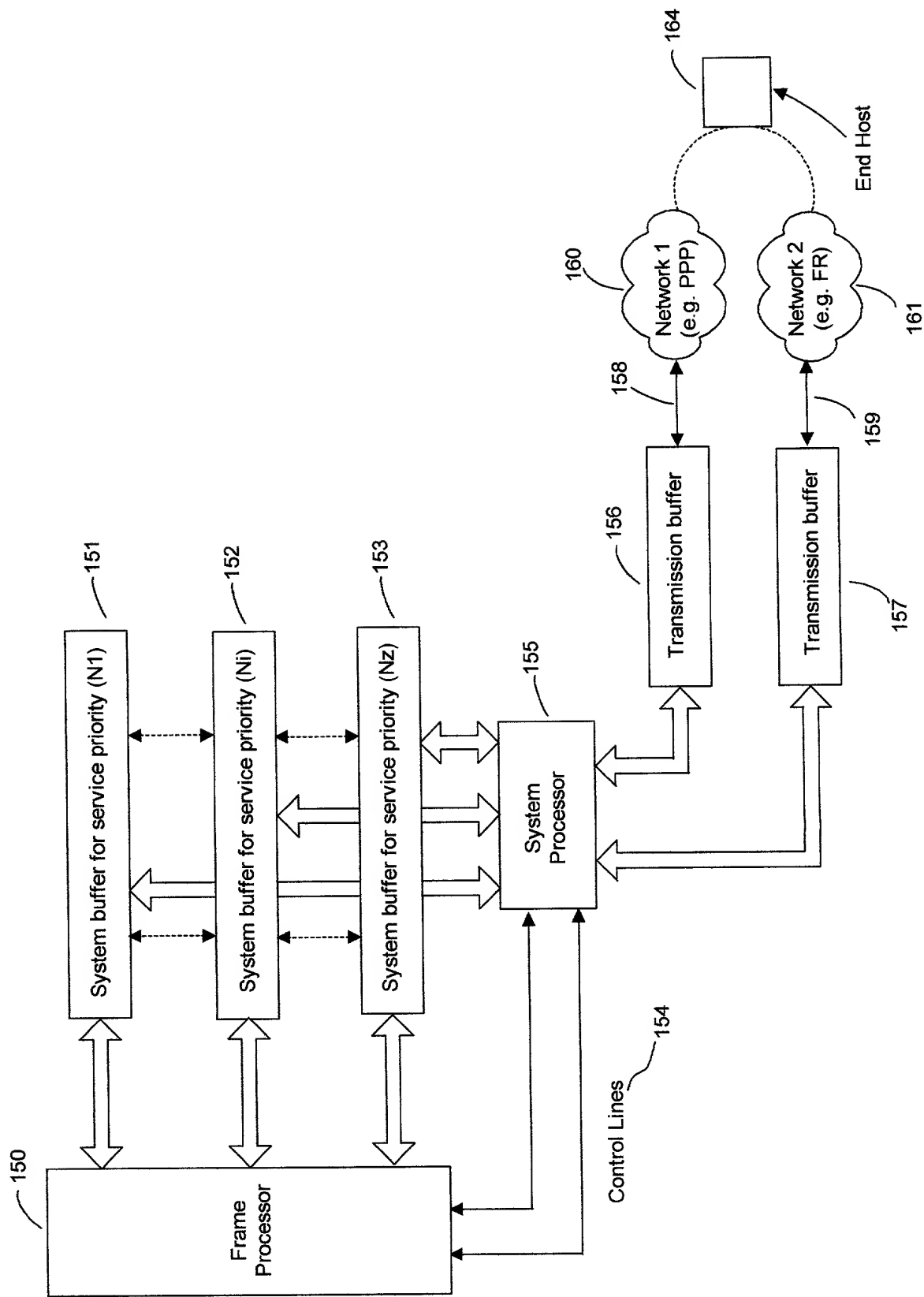


FIG. 12

# Multi-priority Services over multiple network links

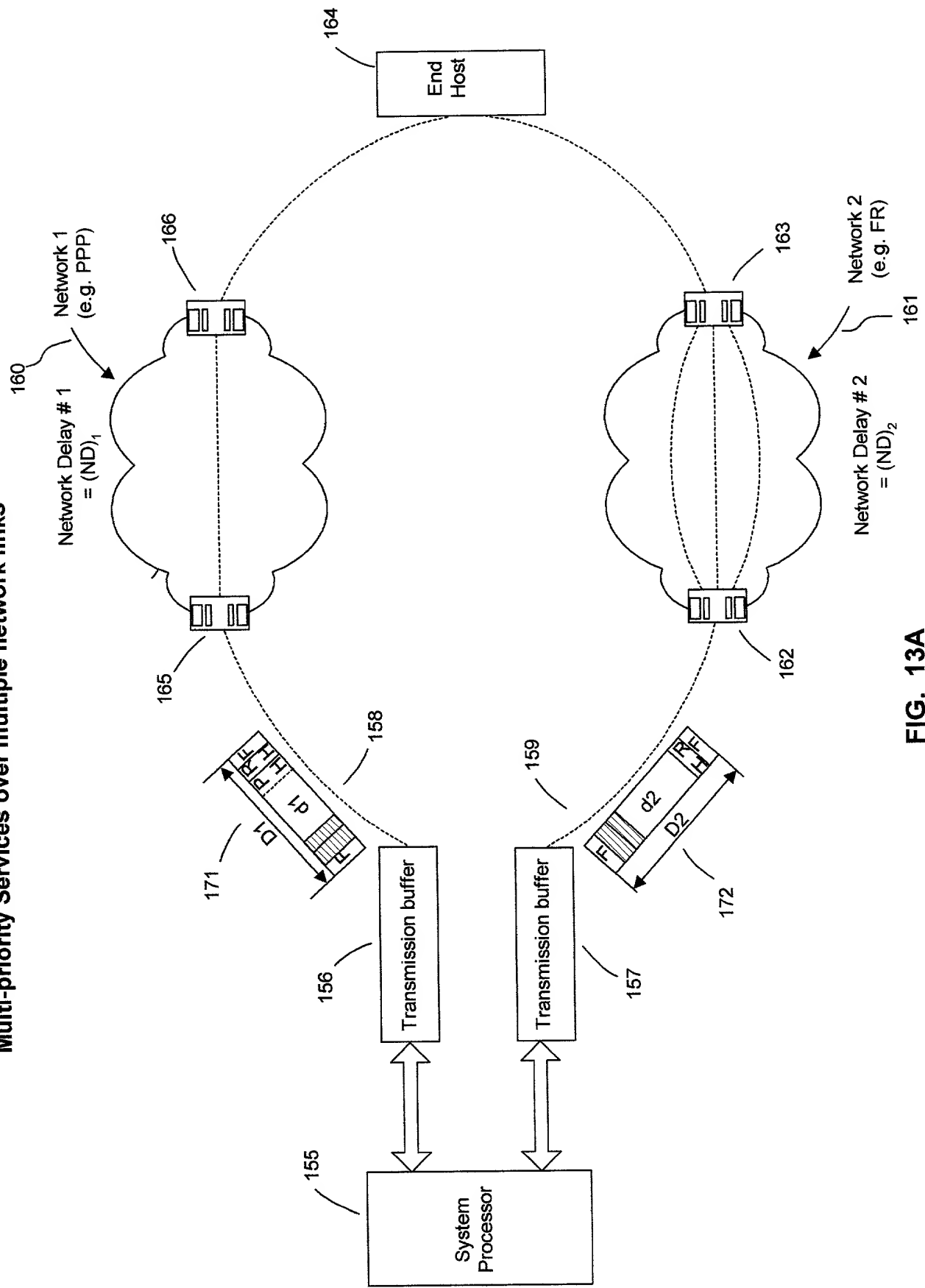


FIG. 13A

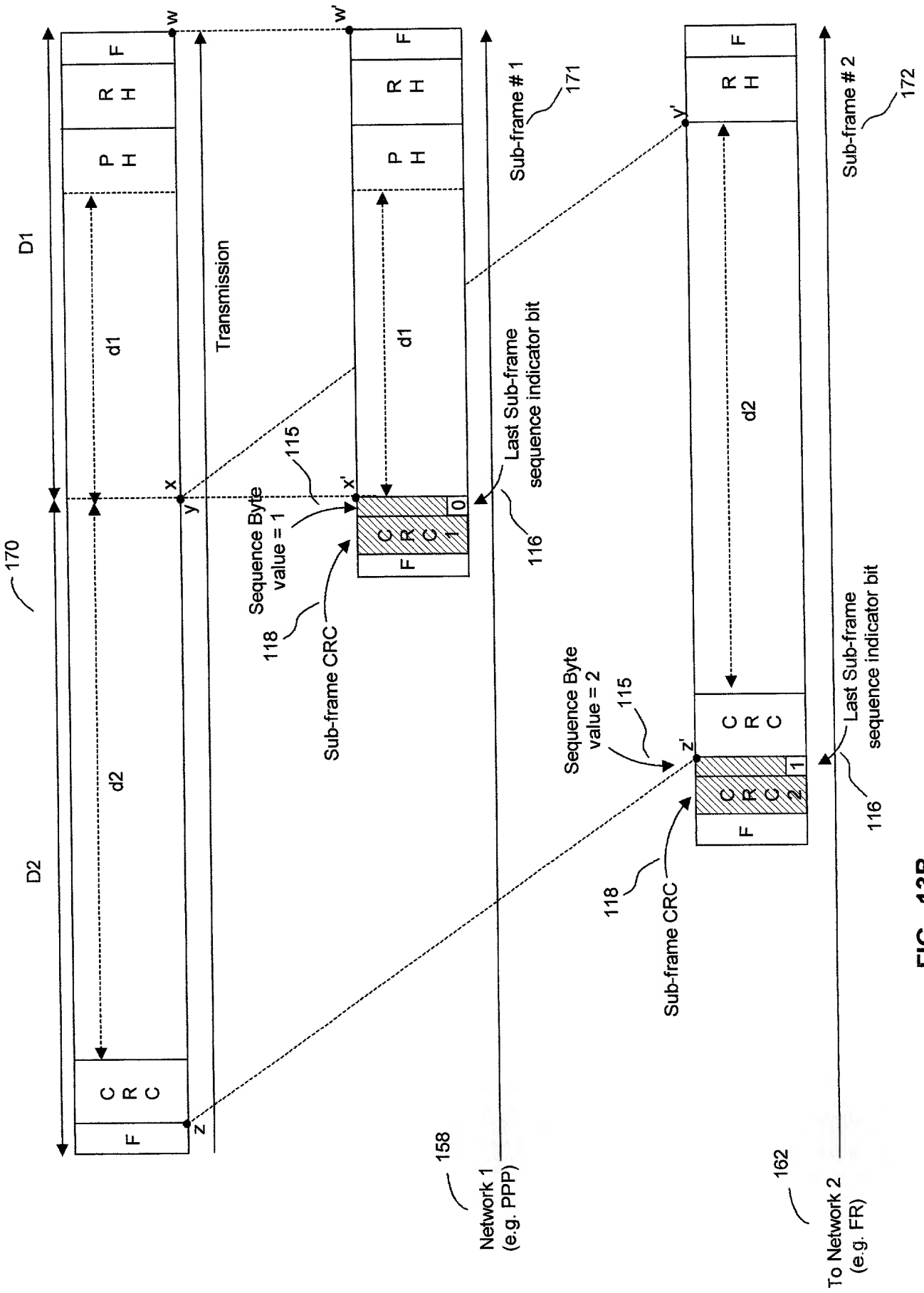


FIG. 13B

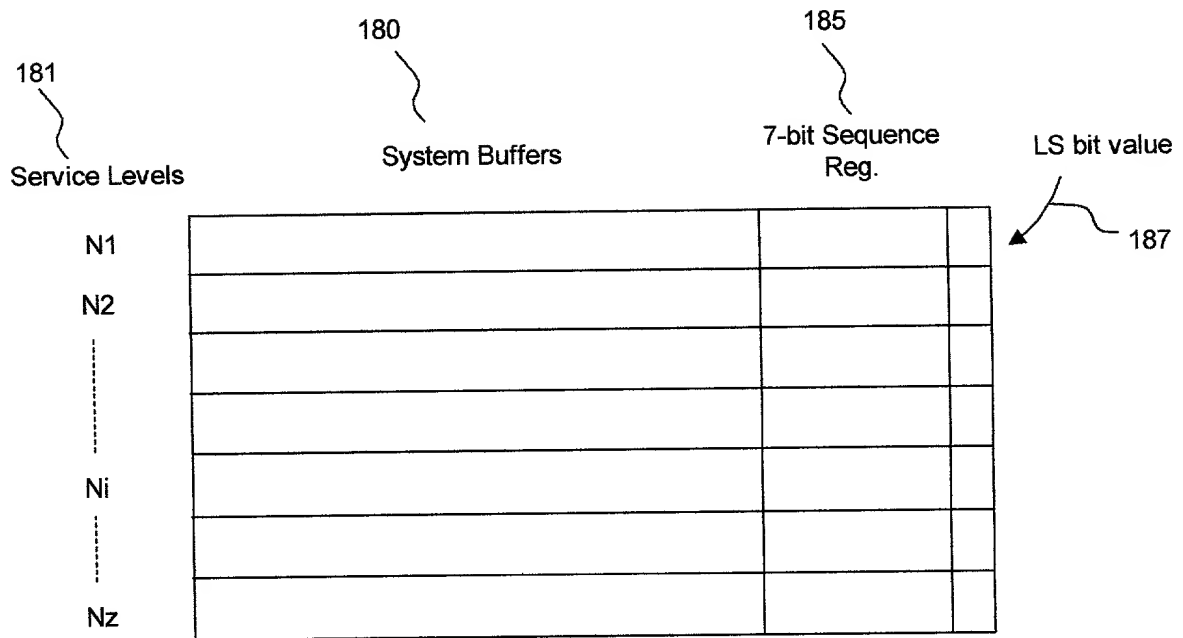


FIG. 14A

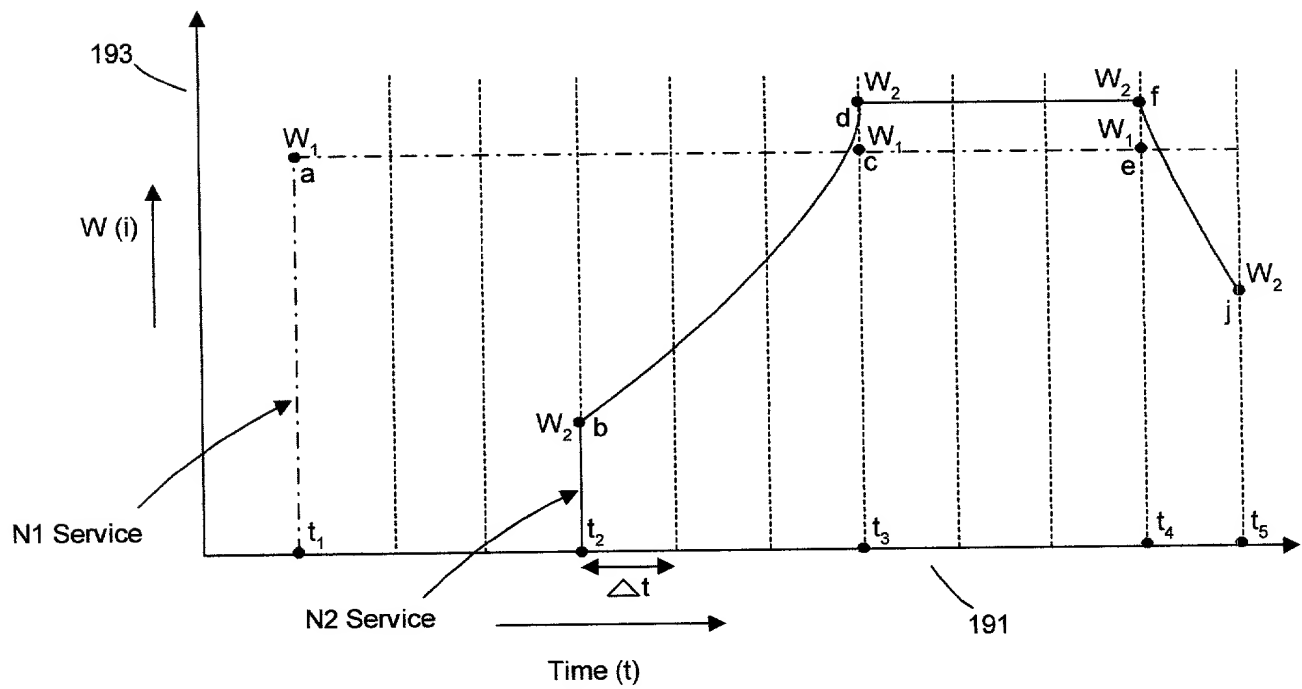


FIG. 14B

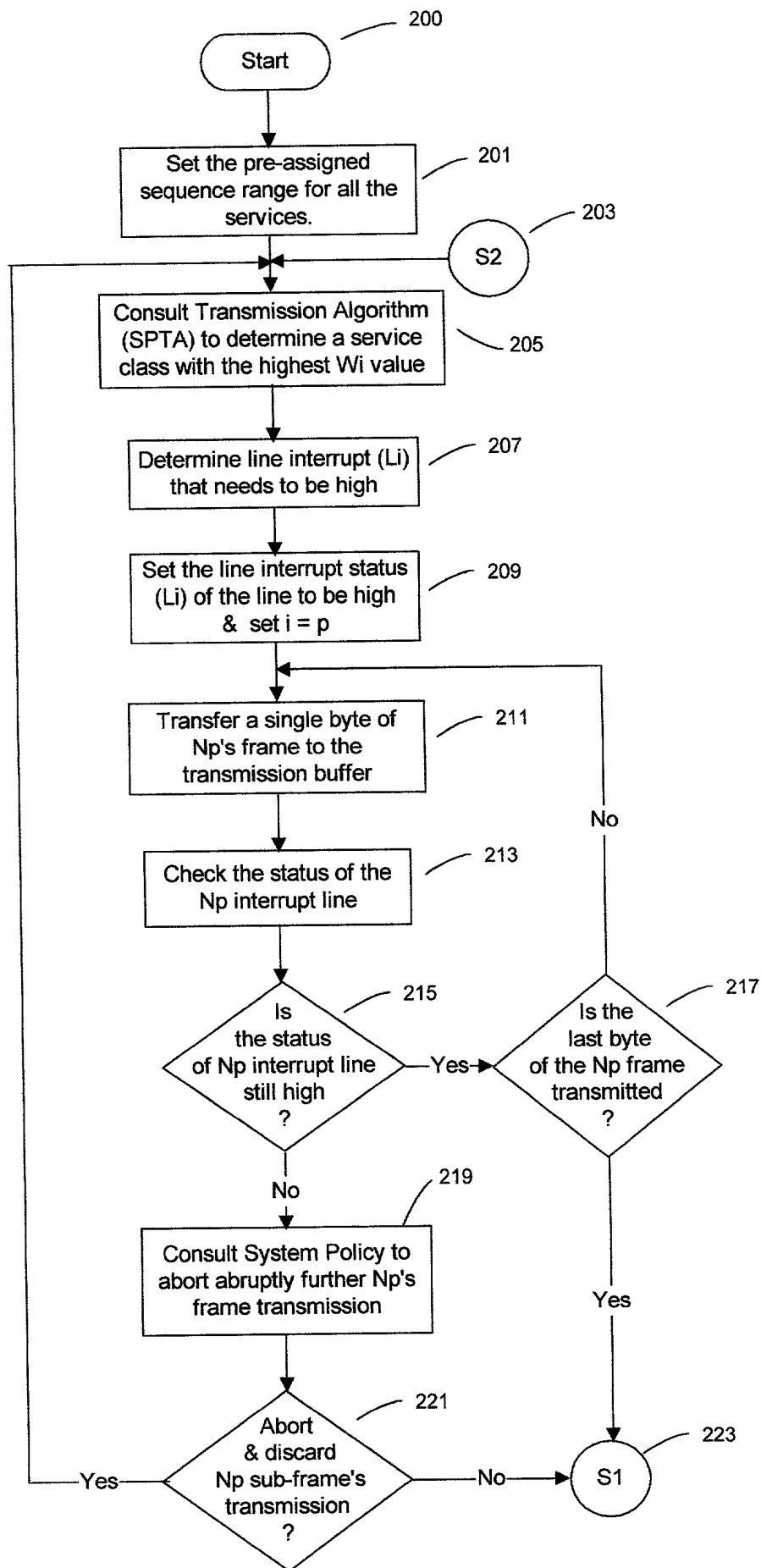


FIG. 15A

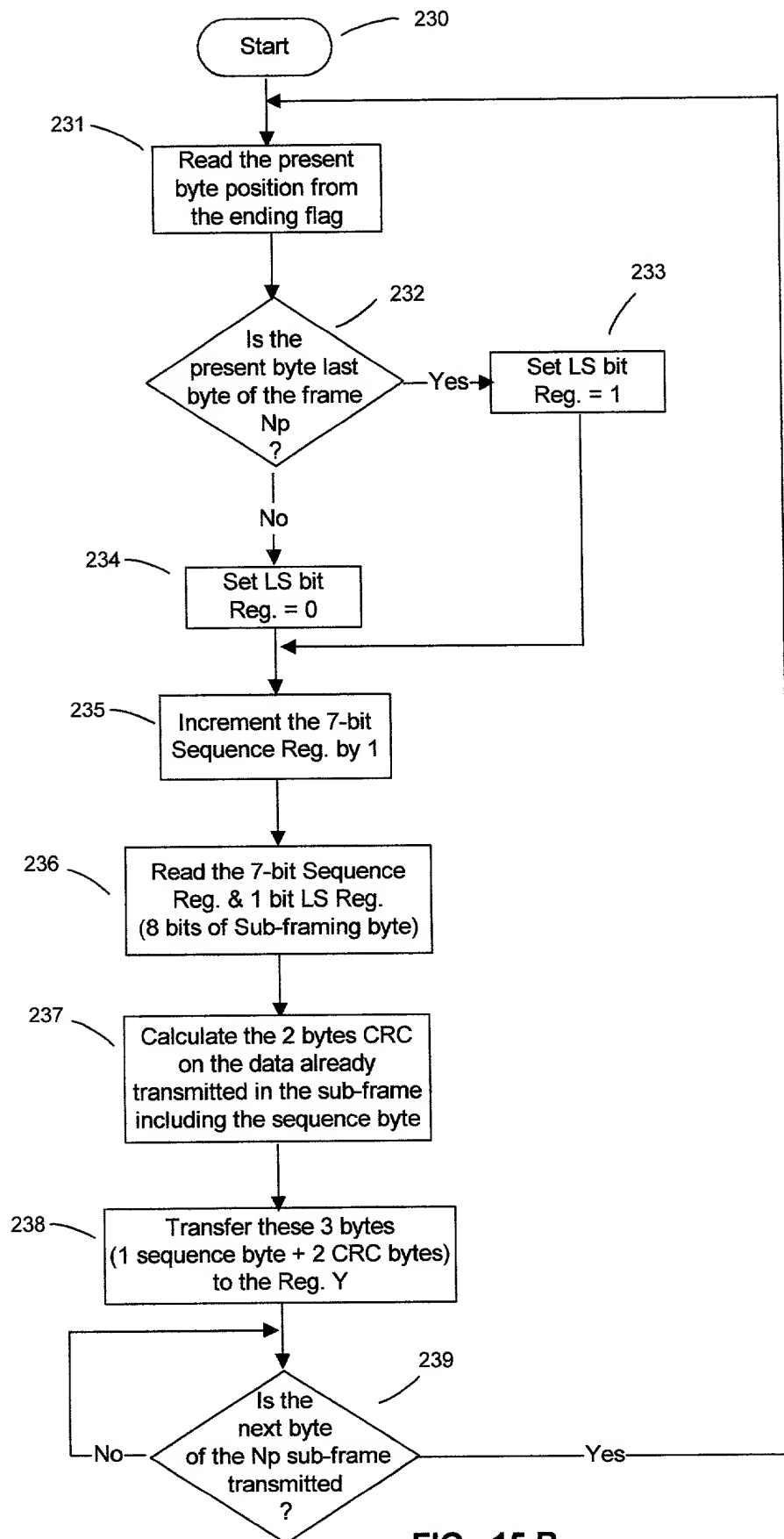


FIG. 15 B

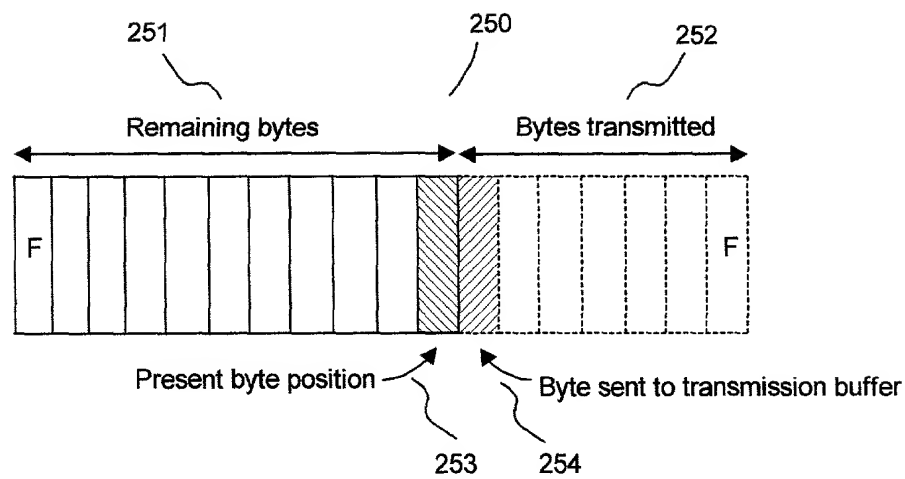


FIG. 15C

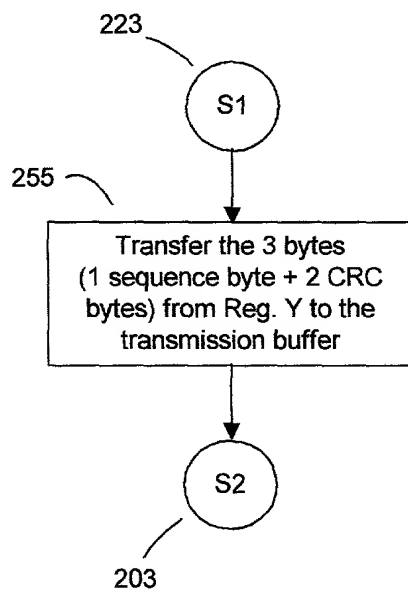


FIG. 15D

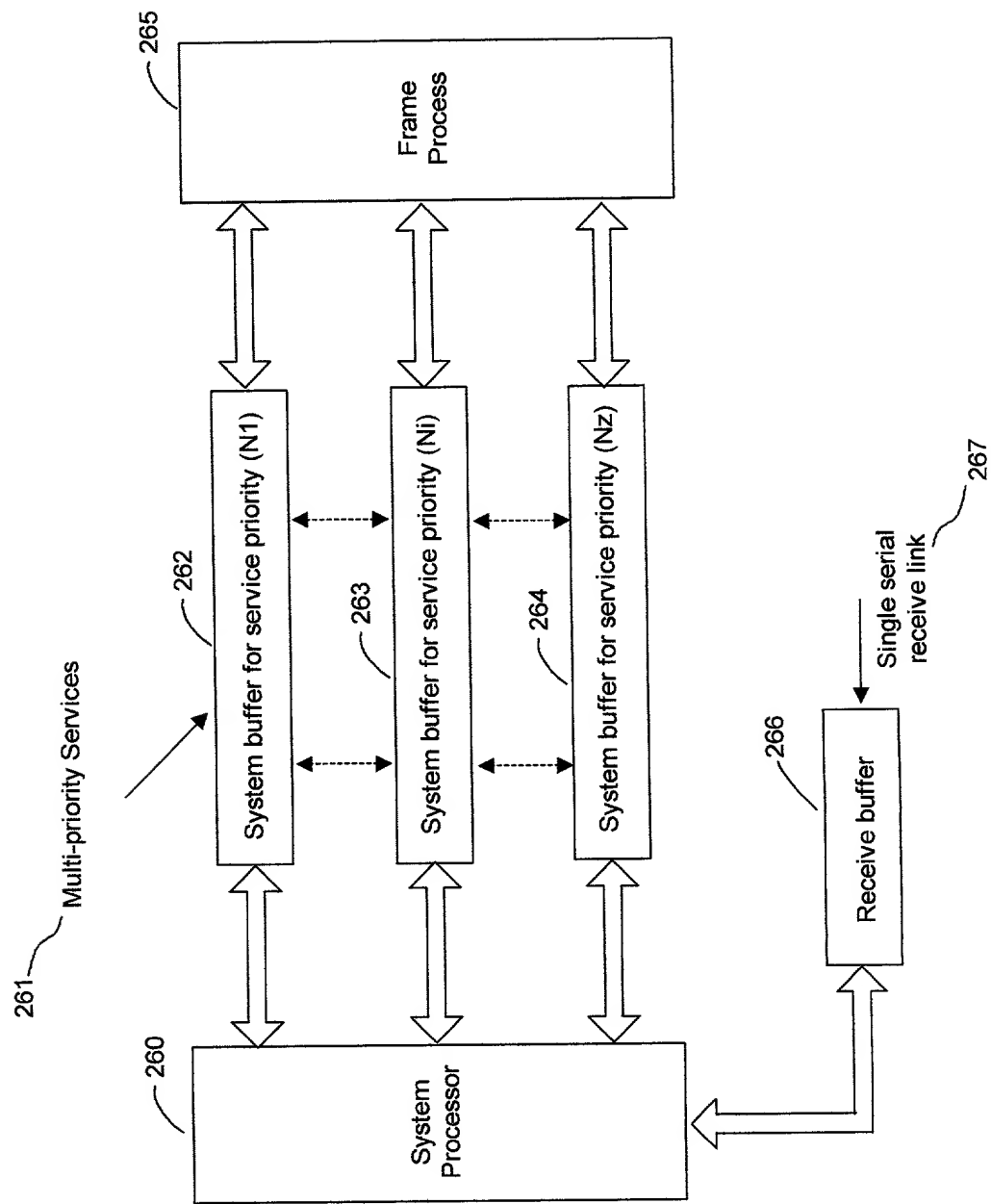


FIG. 16A

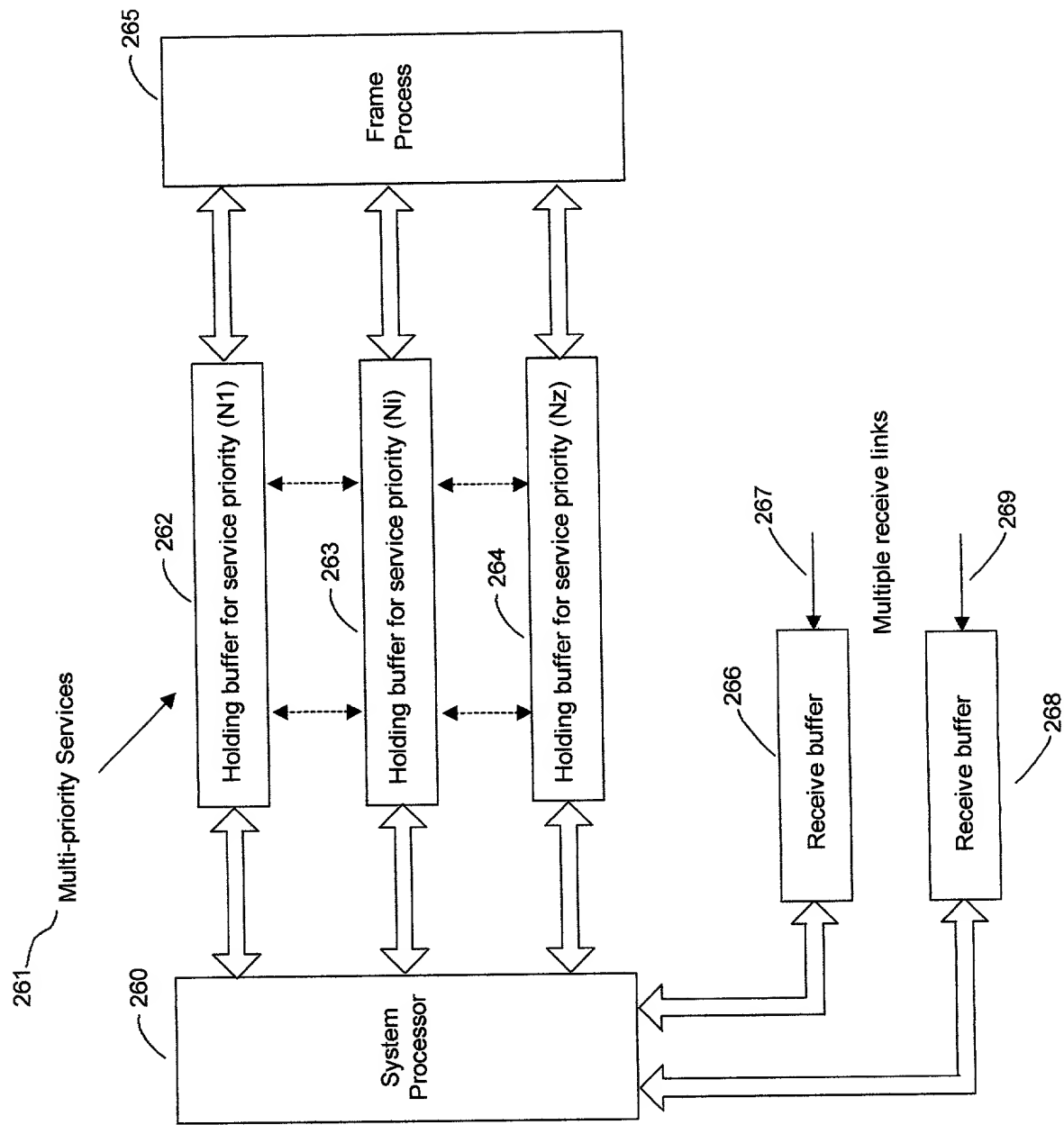


FIG. 16B

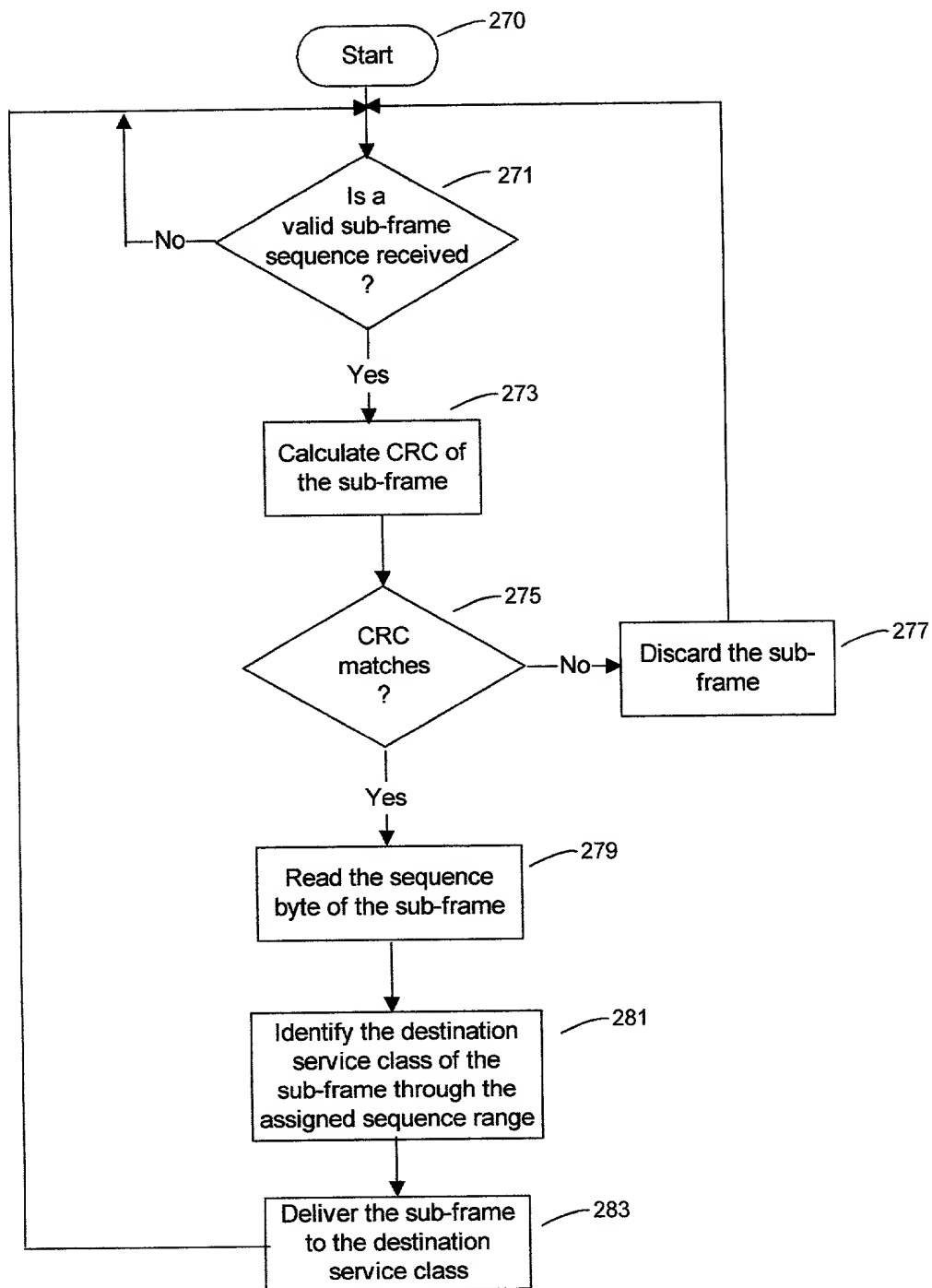


FIG. 17

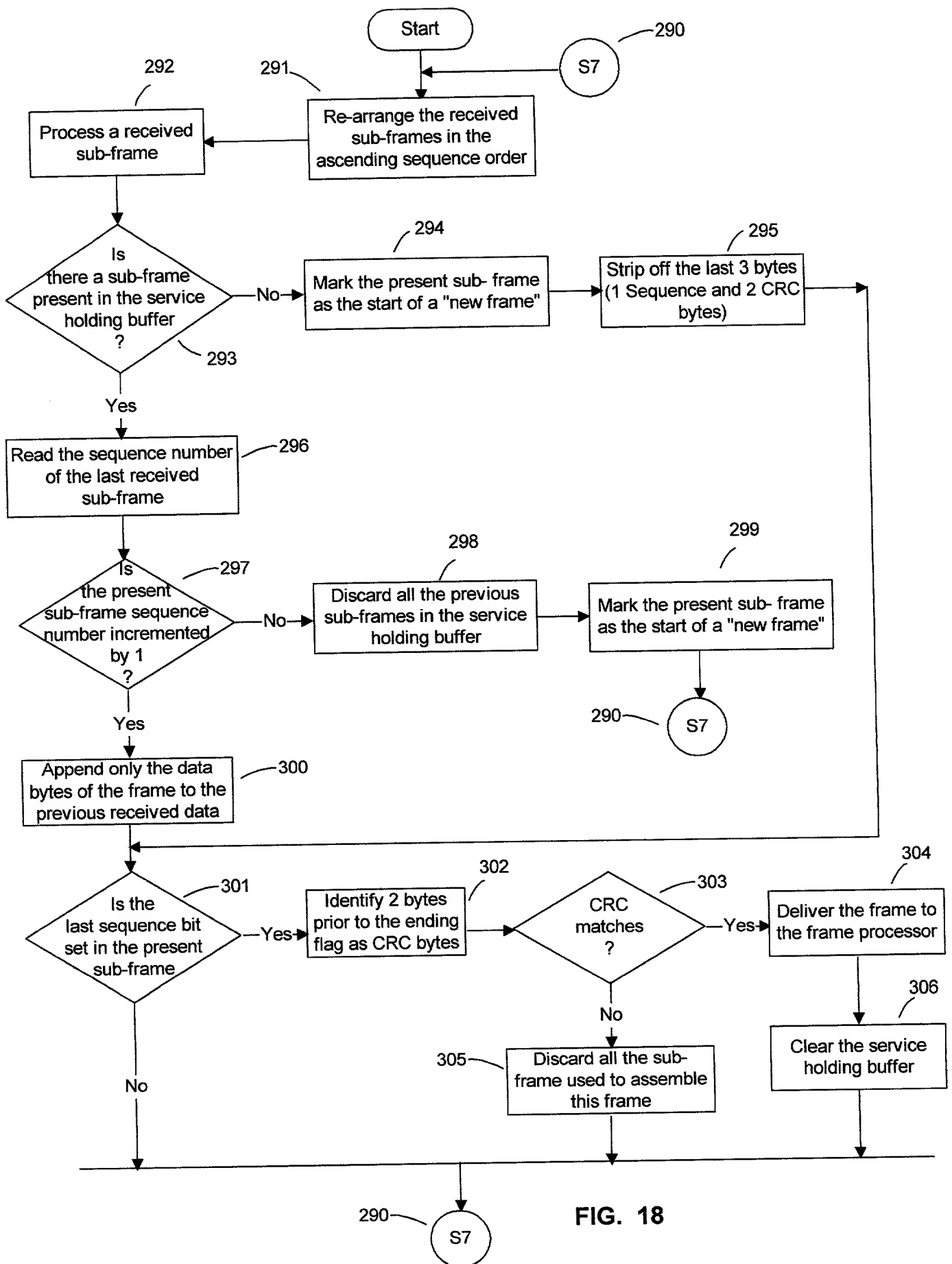


FIG. 18

# Multi-priority Services over multiple links

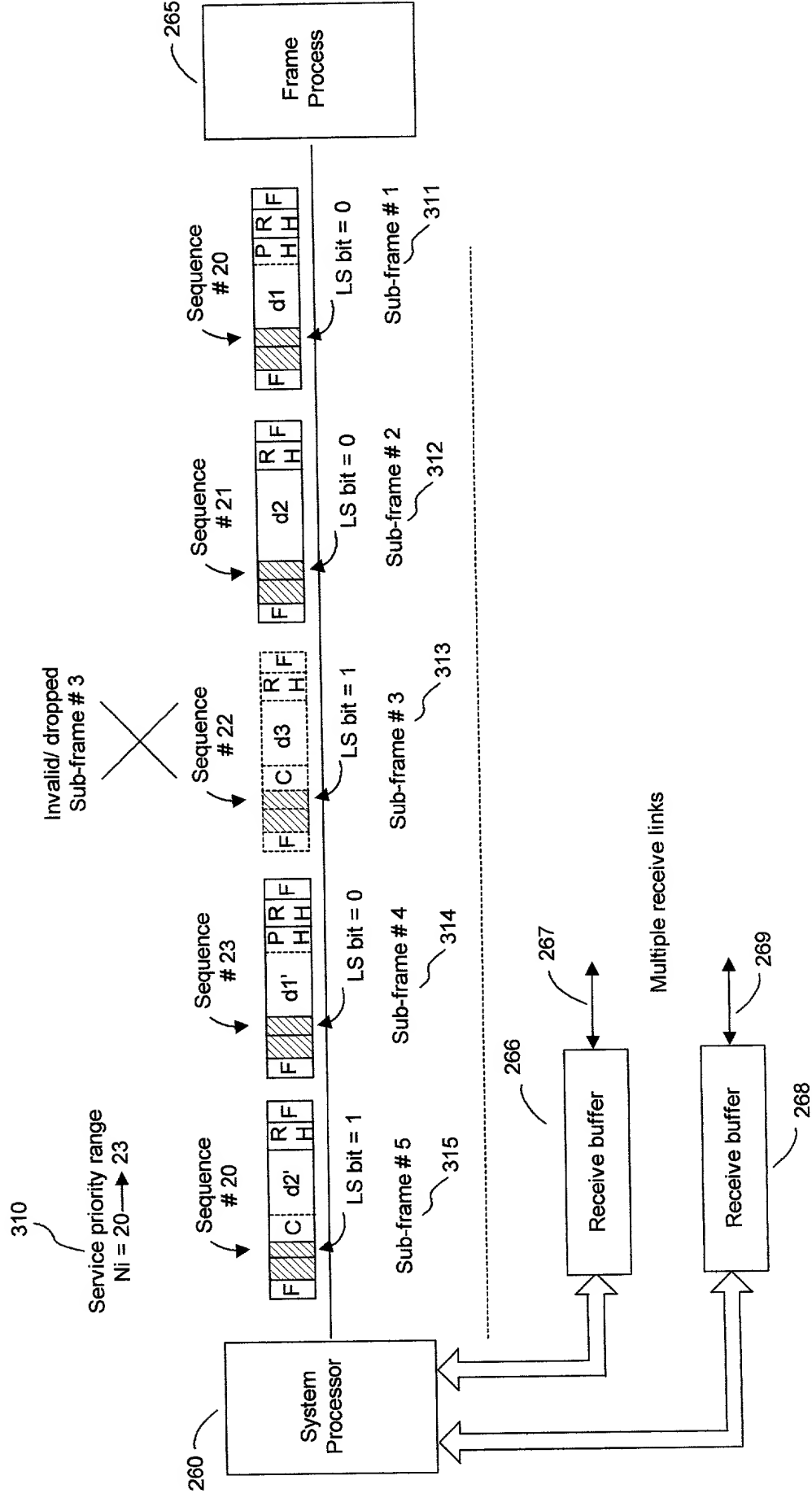


FIG. 19A

# Multi-priority Services over a single link

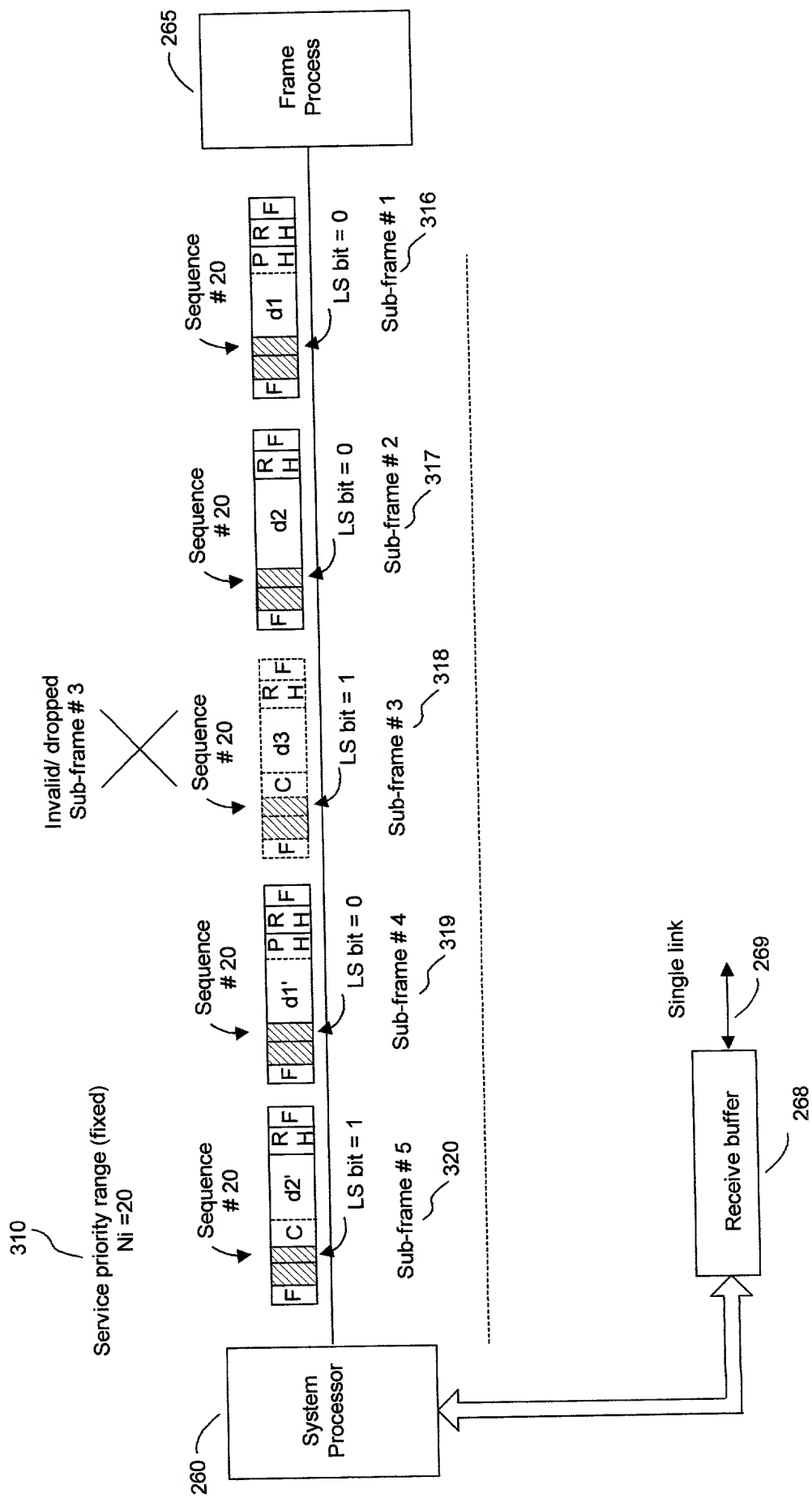


FIG. 19B

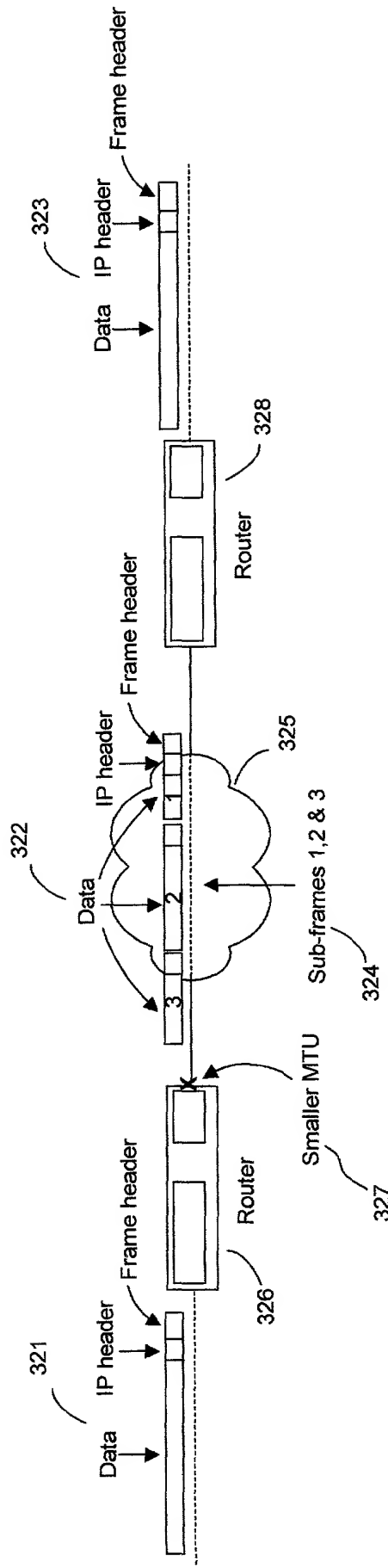


FIG. 20A

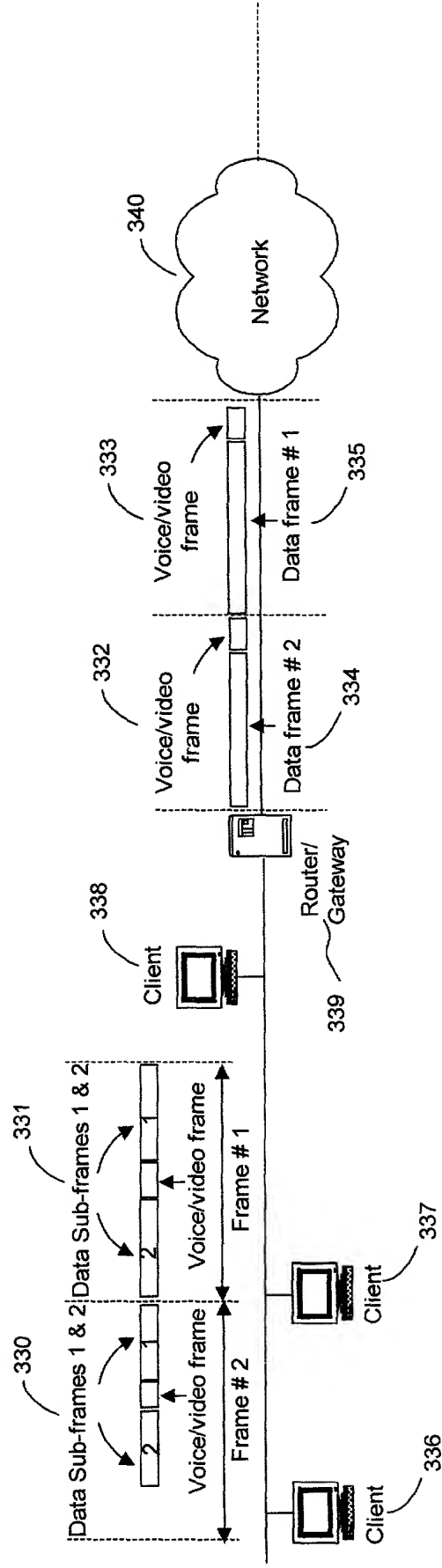


FIG. 20B

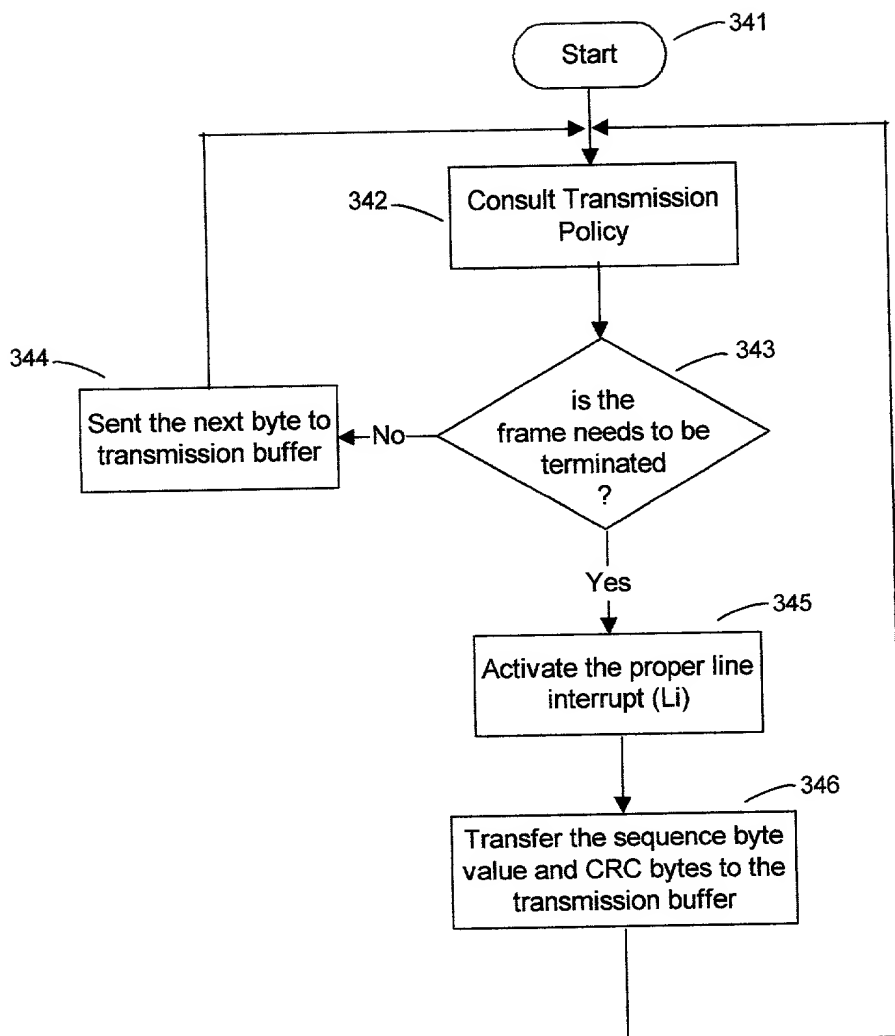
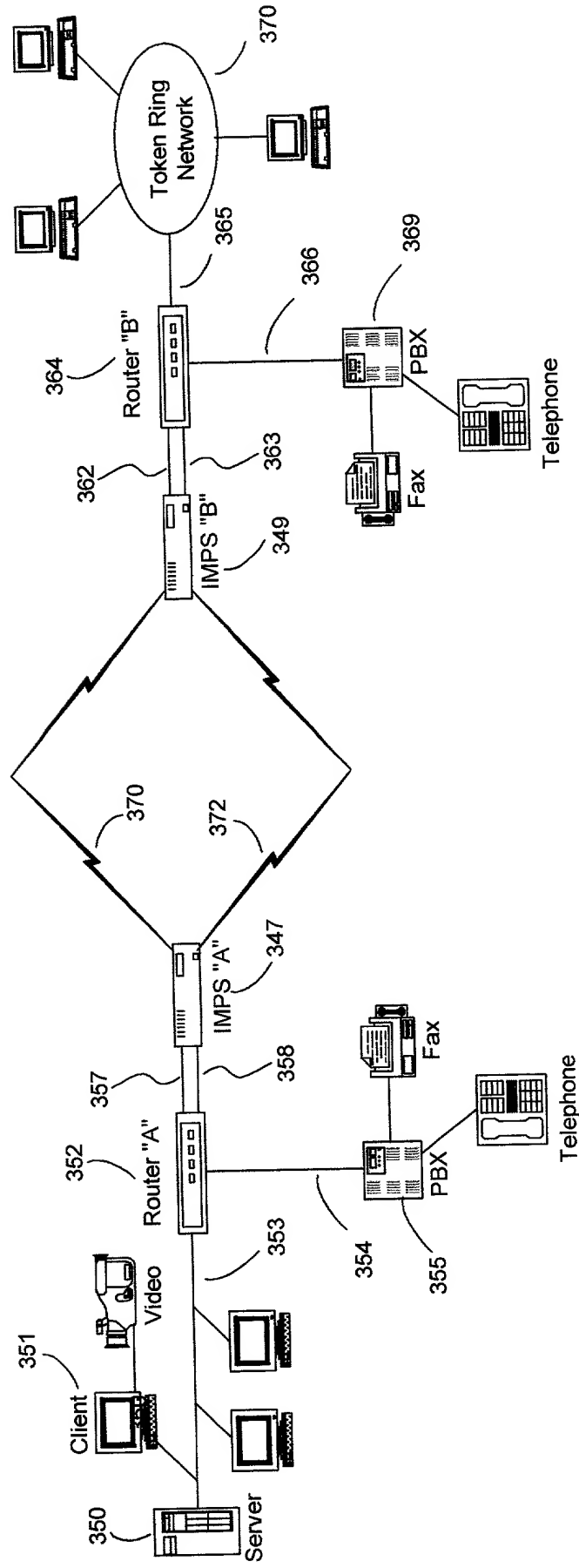


FIG. 21



Network "Z"

FIG. 22

Network "Y"

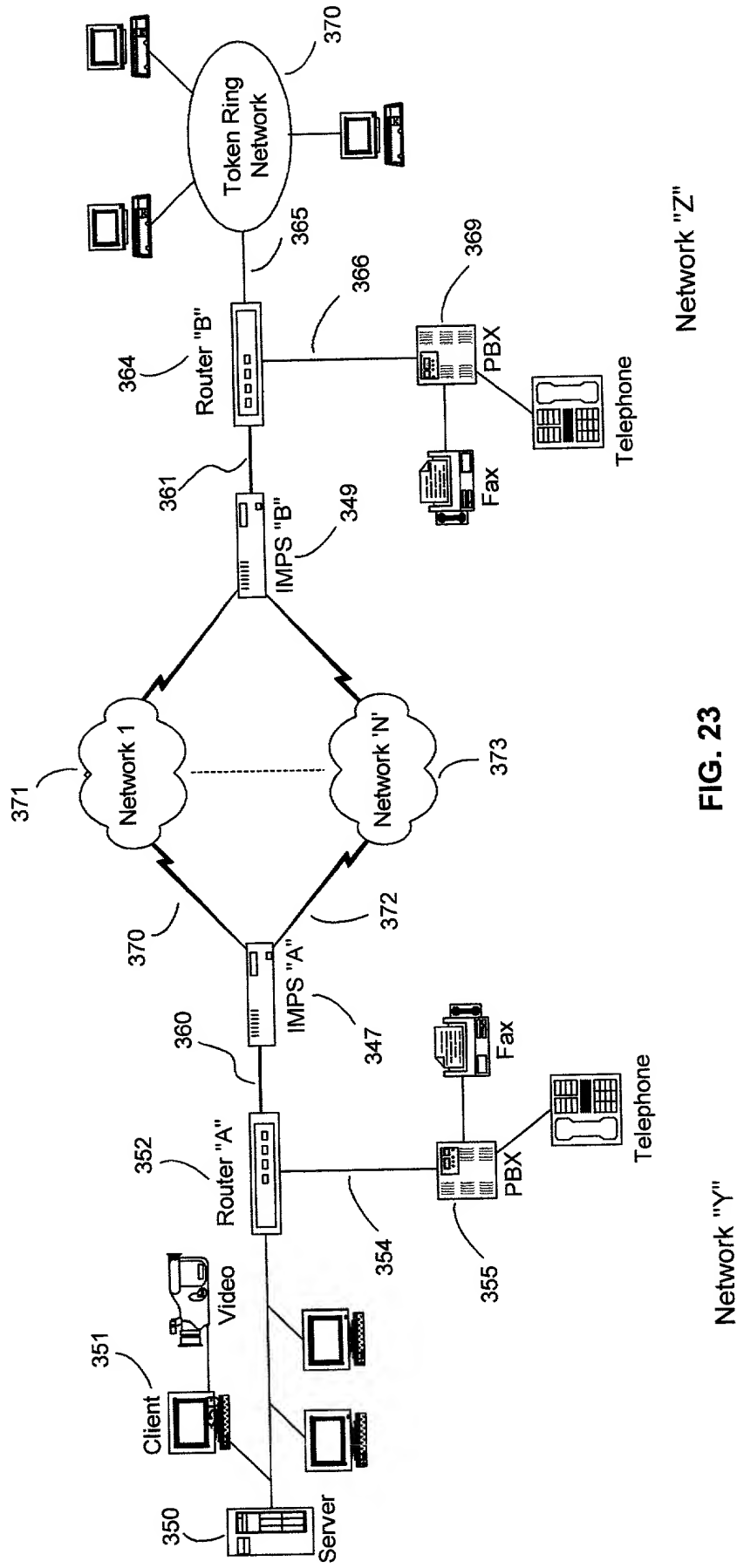
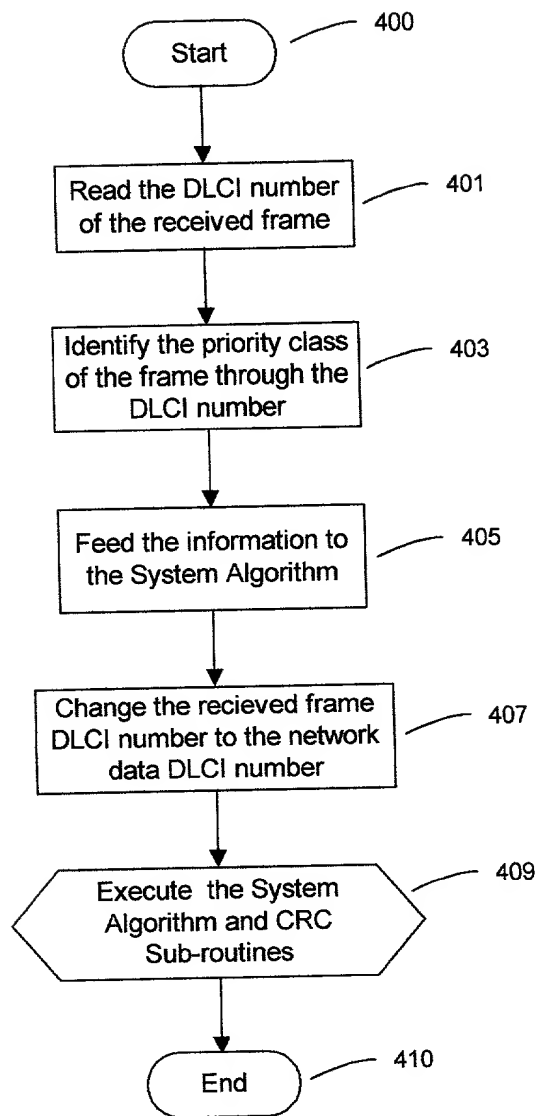


FIG. 23



**FIG. 24**

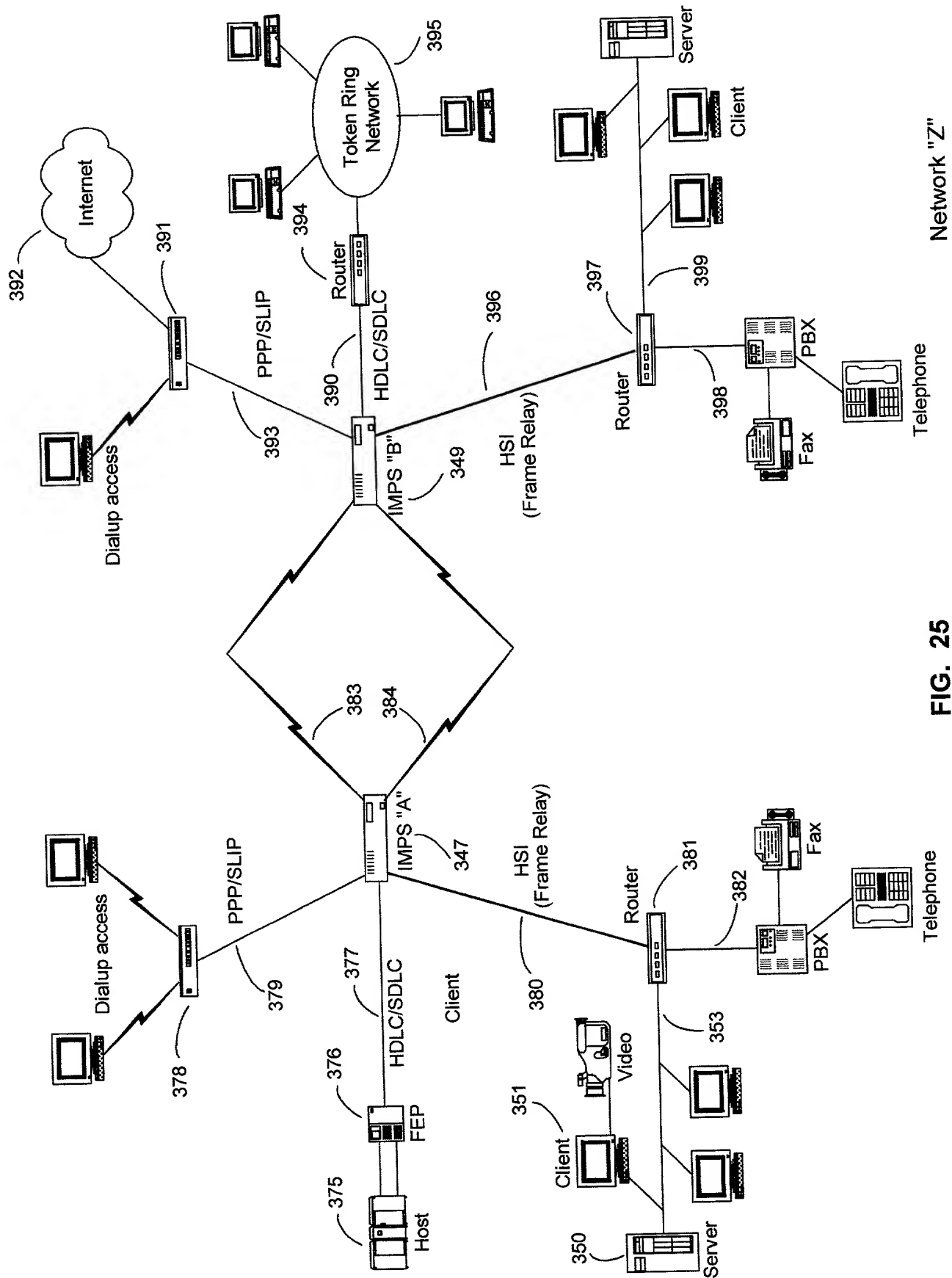


FIG. 25

Network "Y"

Network "Z"

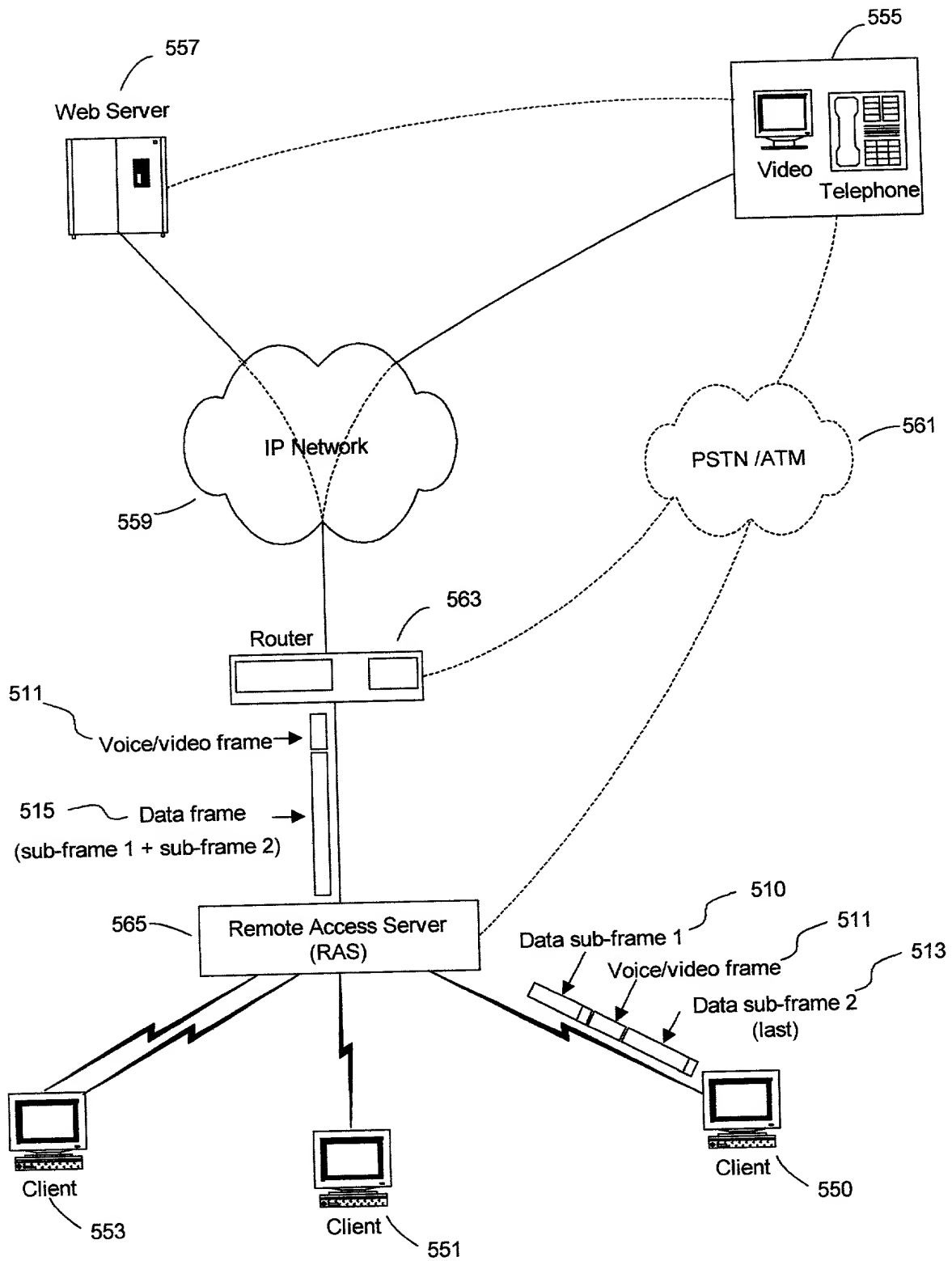


FIG. 26

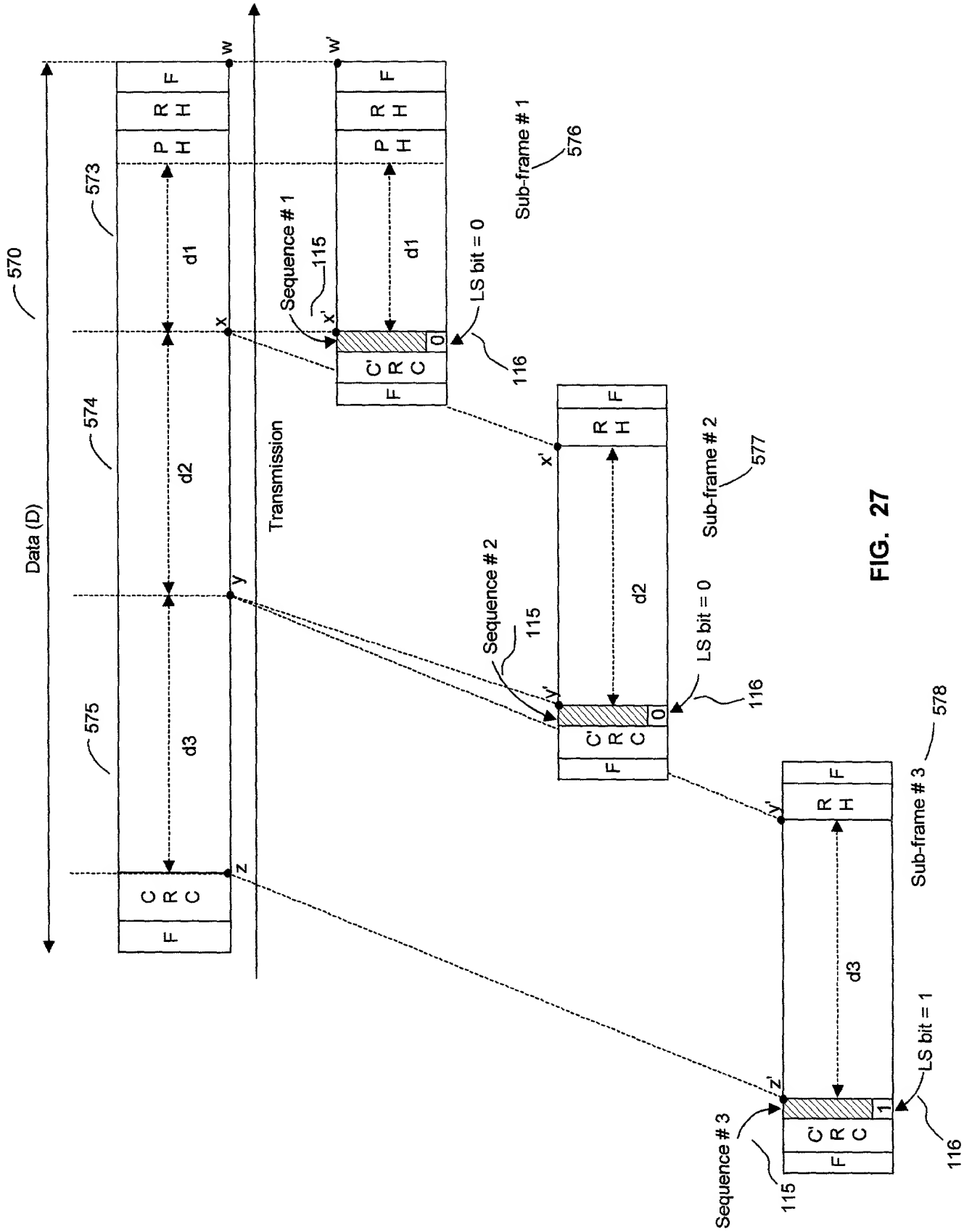


FIG. 27

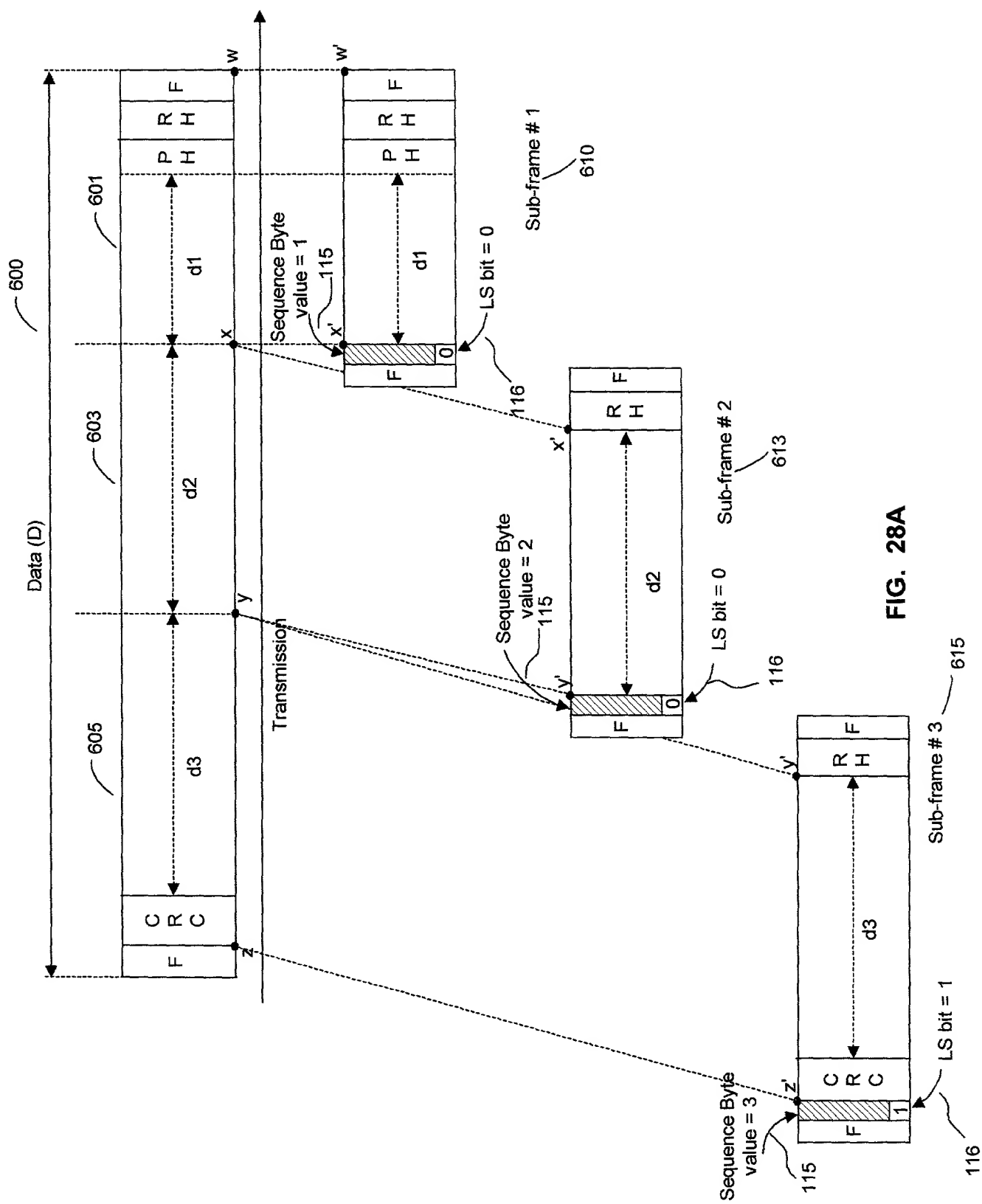


FIG. 28B is a block diagram of a sub-framing byte structure. The sub-framing byte is divided into two main sections: a Service ID and sequence # bits section (620) and a Parity bits section (625). The Service ID and sequence # bits section (620) is further divided into eight individual bits, with the Most Significant Bit (MSB) on the left and the Least Significant Bit (LSB) on the right. The Parity bits section (625) is located to the right of the Service ID and sequence # bits section (620) and consists of two bits. The entire structure is labeled as a Sub-framing byte (623).

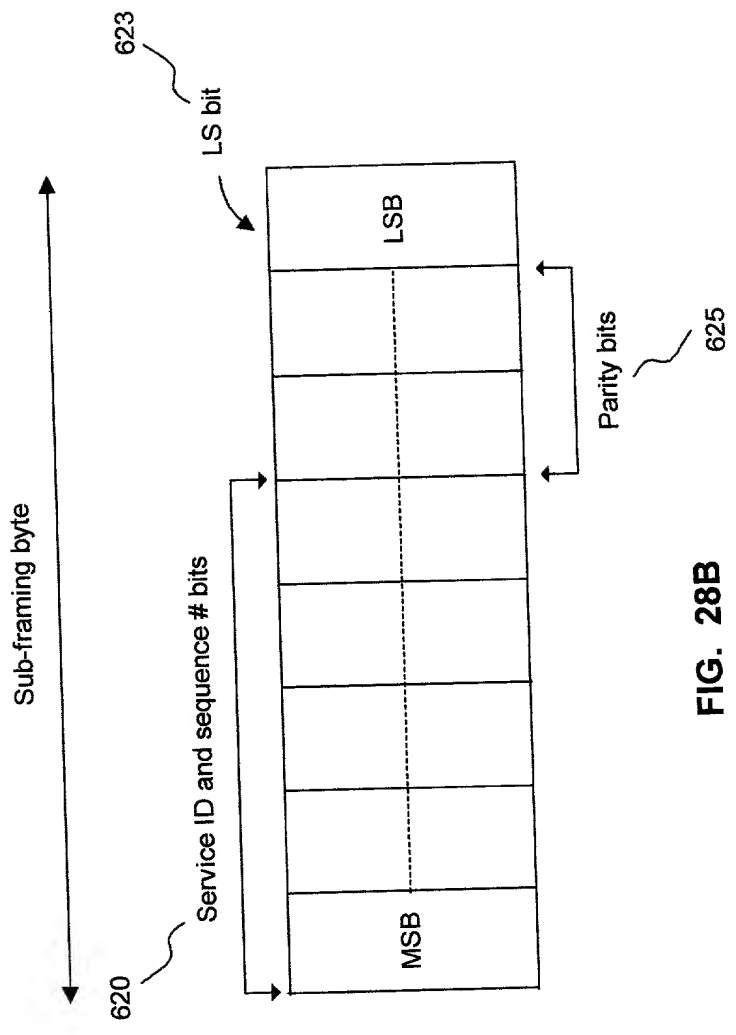


FIG. 28B